

County of San Diego Health and Human Services Agency Emergency Medical Services

San Diego County Trauma System Report

July 1, 2002 through June 30, 2003

December 2004

County of San Diego Board of Supervisors

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Acknowledgements

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The San Diego County Trauma System emerged as a result of dedicated physicians, nurses, and system specialists within the county working to develop an environment for the careful evolution of a regional trauma system. The input from these groups generated the discussion and in-depth analysis of relevant public health policy options.

In 1982, the Hospital Council (now the Healthcare Association) of San Diego and Imperial Counties conducted a needs assessment to determine if San Diego County would benefit from a regionalized trauma system. The study represented the first comprehensive concurrent and retrospective audit of trauma care in the nation ("Trauma Needs Assessment Study" by Amherst and Associates). The findings and recommendations of the Trauma Needs Assessment Study, released in November of 1982, led to the development of a joint Hospital Council and Medical Society plan for care of major trauma victims in San Diego County.

In October 1983, with support and direction from the San Diego County Board of Supervisors, the Department of Health Services created an Ad Hoc Trauma Advisory Task Force to assist in the review and evaluation of the Hospital Council – Medical Society Trauma Plan. The advisory group of outside trauma experts conducted public hearings and informal sessions with in-hospital and prehospital trauma care providers, and synthesized the experiences of other trauma systems into a single set of recommendations for the Department and the Board of Supervisors to consider. The recommendations urged the county to adopt trauma standards that closely approximated the American College of Surgeons guidelines. The community consensus that emerged from their effort resulted in the formal adoption of their recommendations by the County Board of Supervisors in November 1983.

Once the trauma standards were adopted, the Department implemented a competitive selection process, seeking to designate five adult trauma centers and one pediatric trauma center. Designation criteria were incorporated in a Request for Proposal and the Ad Hoc Trauma Advisory Task Force became the Proposal Review Committee to evaluate and recommend hospitals for designation. Six facilities were awarded provisional designation status based on the quality of trauma services provided.

On August 1, 1984, after sixteen months of direct preparation, major trauma victims in San Diego County began bypassing community hospitals in favor of designated trauma centers.

Since it inception, the San Diego County Trauma System has responded to nearly 150,000 patients in need of trauma care, and saved untold numbers of lives.

The six trauma centers currently designated are:

Children's Hospital and Health Center Scripps Mercy Hospital Palomar Medical Center Scripps Memorial Hospital – La Jolla Sharp Memorial Hospital U.C.S.D. Medical Center

Preface			

Introduction

Currently, there are five adult trauma centers serving San Diego County: Palomar Medical Center, Scripps Memorial Hospital - La Jolla, Scripps Mercy Hospital, Sharp Memorial Hospital, and UCSD Medical Center. Children's Hospital and Health Center serves as the pediatric trauma center. Since August 1984, more than 130,000 trauma patients have been admitted to San Diego County's designated trauma centers.

Traumatic injury, considered a preventable disease, represents a serious public health challenge for San Diego County. During FY 2002/03, 9,990 patients were admitted to designated trauma centers (an average of 833 patient admissions per month). The number of trauma patients increased from the previous fiscal year by five percent.

Table 1.1: Trauma Center Admissions by Fiscal Year

			Admissions by 1 130	
		Trau	ma Center Admissions	
Fiscal Year	Number	Monthly Average	% Change from Previous Year	Rate per 100,000 Population
1985/86	4,374	365		203.55
1986/87	5,466	456	25%	245.81
1987/88	6,148	512	12%	267.22
1988/89	6,379	532	4%	267.05
1989/90	6,650	554	4%	268.14
1990/91	7,036	586	6%	277.05
1991/92	7,111	593	1%	275.25
1992/93	6,460	538	-9%	247.11
1993/94	6,399	533	-1%	242.52
1994/95	6,474	540	1%	243.51
1995/96	7,516	626	16%	279.38
1996/97	7,257	605	-3%	266.37
1997/98	7,653	638	5%	273.83
1998/99	8,435	703	10%	295.62
1999/00	8,984	749	7%	308.57
2000/01	9,351	779	4%	314.44
2001/02	9,545	795	2%	328.18
2002/03	9,990	833	5%	337.32

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Center Monthly Reports; Population Estimates, SANDAG.

Traumatic injuries are classified as either penetrating or blunt. The number of patients admitted to county trauma facilities with penetrating injuries (mostly due to firearms and cutting/piercing injuries) increased steadily from fiscal year 1985/86 to 1992/93. Since then, the number of penetrating injuries decreased 57% to a 17-year low of 597 in FY 2001/02. FY 2002/03 saw a 23% increase in penetrating trauma patients from the previous year. The number of blunt injuries, primarily resulting from motor vehicle related injuries and falls, has continued to increase by an average of about 8% per year. Blunt injuries experienced a corresponding increase in the proportion of all traumatic injuries, from 84% during FY 1985/86 to 93% in FY 2002/03.

Table 1.2: Trauma Center Admissions by Injury Type

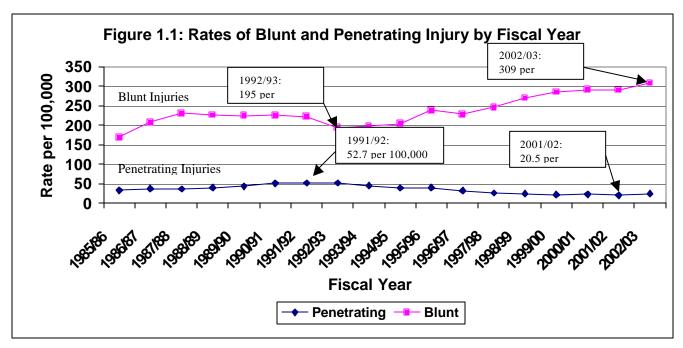
	Penetrating					Blunt		
Fiscal Year	#	%	% Change from Previous Year	Rate per 100,000 Population	#	%	% Change from Previous Year	Rate per 100,000 Population
1985/86	721	16%		33.55	3,653	84%		169.99
1986/87	841	15%	17%	37.82	4,625	85%	27%	207.99
1987/88	845	14%	<1%	36.73	5,303	86%	15%	230.49
1988/89	967	15%	14%	40.48	5,412	85%	2%	226.57
1989/90	1078	16%	11%	43.47	5,572	84%	3%	224.67
1990/91	1301	18%	21%	51.23	5,735	82%	3%	225.82
1991/92	1362	19%	5%	52.72	5,749	81%	<1%	222.53
1992/93	1375	21%	1%	52.60	5,085	79%	-12%	194.51
1993/94	1192	19%	-13%	45.18	5,207	81%	2%	197.35
1994/95	1043	16%	-13%	39.23	5,431	84%	4%	204.28
1995/96	1083	14%	4%	40.26	6,428	86%	18%	238.94
1996/97	883	12%	-18%	32.41	6,226	88%	-3%	228.52
1997/98	759	10%	-14%	27.16	6,890	90%	10%	246.53
1998/99	726	9%	-4%	25.53	7,709	91%	12%	270.18
1999/00	660	7%	-9%	22.70	8,317	93%	8%	285.66
2000/01	679	7%	3%	22.83	8,668	93%	4%	291.47
2001/02	597	7%	-12%	20.53	8,453	93%	-2%	290.63
2002/03	735	7%	23%	24.82	9,142	93%	8%	308.69

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Center Monthly Reports; Population Estimates, SANDAG.

A rate is calculated as incidence per 100,000 population. Rates were calculated using January 2003 population estimates obtained from the San Diego Association of Governments (SANDAG). Rates were not calculated for categories with less than five occurrences.

Rate =
$$\frac{\text{Incidence X 100,000}}{\text{Population}}$$

Figure 1.1 shows the trends for blunt and penetrating trauma activations from FY 1985/86 through FY 2002/03. Since FY 1992/93, the rates of blunt and penetrating injuries seen at trauma facilities have diverged. The rate of blunt injuries increased by 58%, while the penetrating injury rate during the same time period decreased by 53%. These patterns reflect an increase in rates of injuries from falls at the same time that assault related injuries dropped substantially.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Center Monthly Reports.

Trauma Registry Data

The American College of Surgeons Committee on Trauma initiated a study which pooled data from more than 100 trauma centers nationwide. To be included, trauma patients had to meet Major Trauma Outcome Study (MTOS) criteria which reflect either the severity of the patient's injuries or the resources required to care for the patient.

Members of the San Diego County trauma system modified these criteria for the San Diego County Trauma Registry. To be entered into the registry, a trauma patient must meet one of the following: admission to the hospital for at least three days, admission to an intensive or intermediate care unit, interfacility transfer to or from an acute care hospital, **or** death from traumatic injuries. In January 2000, these criteria were revised to include trauma patients who had been admitted for at least 24 hours, although admission to an ICU was no longer a criterion for inclusion.

Since 1986, each of the designated trauma centers has submitted data on each trauma patient admission who met the modified MTOS criteria to the Division of EMS. These summaries contained more than 100 variables, including demographic, cause of injury, diagnostic, treatment and patient outcome data.

Of the 9,990 patients who were admitted to a trauma center during FY 2002/03, 5,739 (57%) met expanded trauma registry criteria for inclusion into the San Diego County Trauma Registry. While total trauma admissions increased by 5% during the last fiscal year, the number of modified MTOS patients increased 8%.

Table 1.3: Total MTOS Patients and Trauma Center Admissions

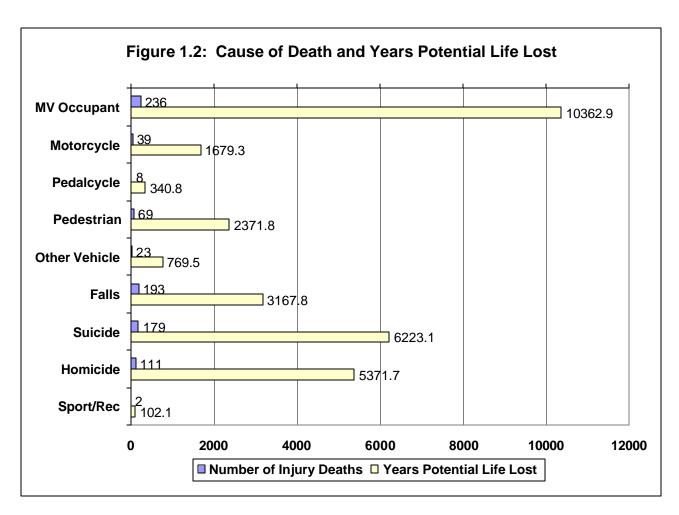
	Total Trauma Admissions	Percentage Change	Modified MTOS Patients	Percentage Change	MTOS Percent of Total
1991/92	7,111		4,645	<u></u>	65%
1992/93	6,460	-9%	4,492	-3%	70%
1993/94	6,399	-1%	4,235	-6%	66%
1994/95	6,474	1%	4,085	-4%	63%
1995/96	7,516	16%	4,250	4%	57%
1996/97	7,257	-3%	5,007	18%	69%
1997/98	7,653	5%	4,951	-1%	65%
1998/99	8,435	10%	4,995	1%	59%
1999/00	8,984	7%	5,093	2%	57%
2000/01	9,351	4%	5,169	1%	55%
2001/02	9,545	2%	5,307	3%	56%
2002/03	9,990	5%	5,739	8%	57%
Total	95,175		57,968		61%

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Trauma Center Monthly Reports.

Years of Potential Life Lost (YPLL) calculates the years of life lost due to a death using the average life expectancy as an estimate for the total length of life. Life expectancy was derived from the Vital Statistics Life Tables (Centers for Disease Control and Prevention). For age groups, YPLL was calculated using the life expectancy for the median age for the group.

YPLL = (Expected years of life - median age) X Number of deaths

Among traumatic deaths, motor vehicle occupant crashes were the leading cause of death (236) and years potential life lost (10,363). Falls were the second highest cause of trauma related mortality (193), while suicide accounted for the second highest number of YPLL (6,223).

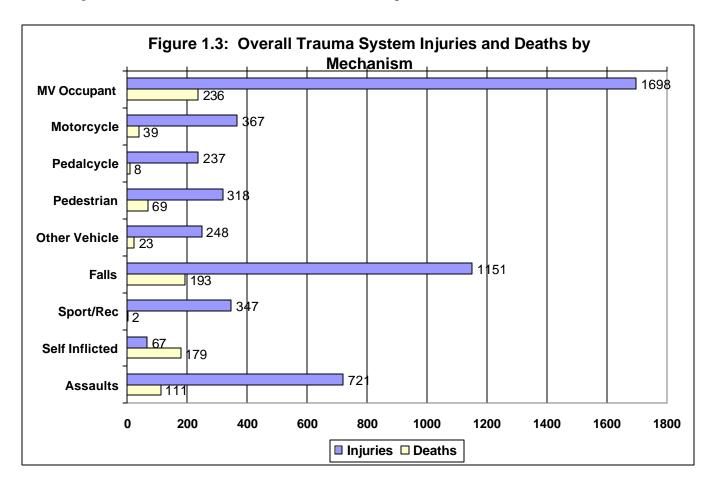


Source: County of San Diego Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

Life table data obtained from Arias E. United States Life Tables, 2001. National Vital Statistics Reports; Vol. 52, No. 14. Hyattsville, Maryland: National Center for Health Statistics.

Current Overview of Traumatic Injury in San Diego County

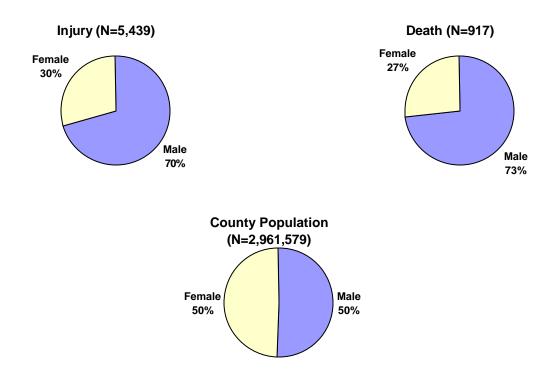
During FY 2002/03, 917 lives were lost due to traumatic injury. On the average, for every person who died as the result of a traumatic injury, six more were seriously injured. Figure 1.3 breaks out deaths and injuries by mechanism. The three leading causes of traumatic injury were motor vehicle occupant crashes, falls and assaults. The leading causes of traumatic death were motor vehicle occupant crashes, falls, and suicide.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

Although males make up half the county's population, they accounted for 70% of all serious injuries and 73% of all trauma patient deaths.

Figure 1.4: Comparison of County Population to Injuries and Deaths by Gender



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03. Population estimates, SANDAG.

Patterns of injury were clearly evident by gender. Males accounted for 70% of nonfatal injuries, and were especially highly represented in assaults (88%), motorcycle crashes (87%), and pedalcycle crashes (84%). Motor vehicle occupant crashes and falls were the leading causes of injury for both males and females, while assaults made up 17% of injuries to males compared with less than 6% of injuries to females.

Table 1.4: Trauma System Injuries by Mechanism and Gender

	Male	Female	Total
Vehicle Related	1,868	1,000	2,868
MV Occupant	949	749	1,698
Motorcycle	320	47	367
Pedalcycle	199	38	237
Pedestrian	213	105	318
Other Vehicle	187	61	248
Falls	751	400	1,151
Sports/Recreation	280	67	347
Overall Violence	690	98	788
Self Inflicted	52	15	67
Assault	638	83	721
Other	217	42	259
Unknown	18	8	26
Total	3,824	1,615	5,439

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03.

Males made up the majority of traumatic deaths regardless of cause of injury. Motor vehicle occupant crashes were the leading cause of traumatic death for both men and women.

Table 1.5: Trauma System Deaths by Mechanism and Gender

	Male	Female	Total
Vehicle Related	261	114	375
MV Occupant	158	78	236
Motorcycle	35	4	39
Pedalcycle	7	1	8
Pedestrian	47	22	69
Other Vehicle	14	9	23
Falls	123	70	193
Sports/Recreation	1	1	2
Overall Violence	237	53	290
Suicide	153	26	179
Homicide	84	27	111
Other	47	9	56
Unknown	0	1	1
Total	669	248	917

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03.

Table 1.6 includes both the mean and median ages¹ by mechanism of injury for both injuries and deaths. As this table shows, different mechanisms are likely to have distinct age distributions. Sports and recreation injuries had the youngest age distribution (median=22, mean=27 years), while falls had the oldest patients overall. Half of all those who died from falls older than 79. For most mechanisms, the <u>mean</u> and <u>median</u> ages were higher among those who expired than those who survived.

Table 1.6: Mean and Median Age by Mechanism of Injury and Outcome

		Survived		Expired				
	Count	Count Median Mear		Count	Median	Mean		
Vehicle Related	2,867	33	36	371	39	42		
MV Occupant	1,697	33	37	233	34	39		
Motorcycle	367	34	37	39	39	39		
Pedalcycle	237	30	32	8	42	40		
Pedestrian	318	35	37	68	54	50		
Other Vehicle	248	34	36	23	47	50		
Falls	1,151	50	50	193	79	72		
Sport/Rec	347	22	27	2	32	32		
Overall Violence	788	28	31	290	41	43		
Self Inflicted/Suicide	67	31	36	179	47	49		
Assault/Homicide	721	27	30	111	30	33		
Other	259	33	34	56	39	40		
Unknown	26	38	37	1	55	55		
Total	5,438	34	38	913	46	49		

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03. Note: Age was unknown for one injury and four deaths.

1

¹ The <u>mean</u> is the average age. The <u>median</u> is the middle age when all of the ages are put into numerical order. In the event of an abnormally high or low age (an outlier), the <u>median</u> age is not as likely to be influenced as the <u>mean</u> age.

Traumatic injury disproportionately affects persons between the ages of 15 and 34 years. This age range accounted for 40% of all severe injuries, including 61% of assaults, 48% of self-inflicted injuries, 48% of motorcycle injuries, and 46% of motor vehicle occupant injuries. The ten-year age group with the highest incidence of severe injuries was the 15-24 year olds, accounting for 23% of the severe injuries.

Appendix A lists the leading causes of severe injury and death by age group and Appendix C lists county population by age group.

Table 1.7: Trauma System Injuries by Mechanism and Age Group in Years

	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	Unkn	Total
Vehicle Related	66	89	107	319	405	515	475	377	207	141	109	57	1	2,868
MV Occupant	41	38	39	212	264	304	263	206	115	98	79	38	1	1,698
Motorcycle	2	1	4	24	62	91	77	63	32	3	6	2	C	367
Pedalcycle	3	25	38	20	20	28	41	30	20	7	2	3	C	237
Pedestrian	11	22	15	31	32	47	47	45	23	22	14	g	C	318
Other Vehicle	9	3	11	32	27	4 5	47	33	17	11	8	5	C	248
Falls	88	29	25	37	54	109	151	149	102	132	158	117	0	1,151
Sports/Recreation	9	17	80	54	33	52	45	32	17	4	4	0	0	347
Overall Violence	24	3	8	119	161	194	143	93	29	8	5	1	0	788
Self Inflicted	1	1	2	3	15	14	S	14	3	2	2	1	C	67
Assault	23	2	6	116	146	180	134	79	26	6	3	C	C	721
Other	16	18	15	20	24	45	43	39	22	11	4	2	0	259
Unknown	0	0	0	3	5	2	6	8	2	0	0	0	0	26
Total	203	156	235	552	682	917	863	698	379	296	280	177	1	5,439

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03.

The ten-year age group with the highest number of traumatic deaths was 15-24, with 17%. This age group made up 29% of all motor vehicle occupant deaths, and 29% of homicide victims.

Table 1.8: Trauma System Deaths by Mechanism and Age Group in Years

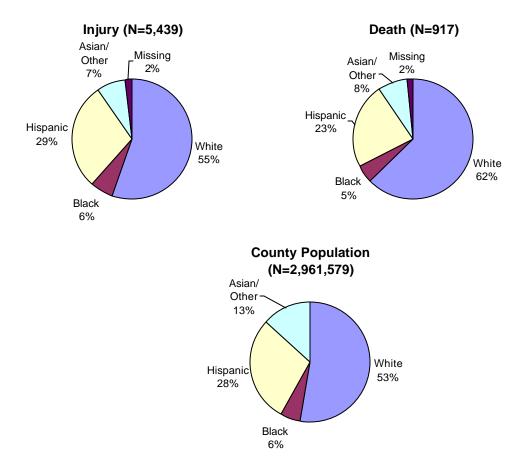
									J -		•			
	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	Unkn	Total
Vehicle Related	10	3	2	37	46	66	63	38	41	25	24	16	4	375
MV Occupant	7	1	1	31	37	45	34	21	20	9	16	11	1	236
Motorcycle	0	0	C	1	5	10	10	8	4	1 1	(((39
Pedalcycle	1	0	1	1	C	0	2	C	2	C	(1	1 (; ε
Pedestrian	1	2	C	4	4	7	11	7	10	14	5	3	1	69
Other Vehicle	1	0	C	0	C	4	6	2	5	1	3	3 1	(23
Falls	1	0	1	1	4	2	5	21	19	19	66	54	(193
Sports/Recreation	0	0	0	1	0	0	1	0	0	0	0	0	0	2
Overall Violence	6	0	1	23	33	53	51	53	28	13	22	2 7	, (290
Suicide	0	0	C	11	13	24	36	35	23	10	20	7	(179
Homicide	6	0	1	12	20	29	15	18	5	3	2	2	(111
Other	2	1	0	2	7	11	11	12	4	2	3	1	(56
Unknown	0	0	0	0	0	0	0	0	1	0	0	0	(1
Total	19	4	4	64	90	132	131	124	93	59	115	78	4	917

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03.

The relative distribution of traumatic injuries and deaths by race/ethnicity was comparable to the overall county population makeup. Whites comprised a higher proportion of deaths than would be estimated from the population distribution.

Figure 1.5: Comparison of County Population to Injuries and Deaths

By Race/Ethnicity



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03. Population estimates, SANDAG

The White population made up 54% of the overall county population, but made up a larger proportion of injuries and deaths from motorcycle crashes (72% of injuries, 82% of deaths), falls (62% of injuries, 78% of deaths), and self inflicted injuries (61% of injuries, 79% of deaths). Blacks, with 5% of the total population, were more severely impacted by assaults (15% of injuries, 20% of deaths).

Table 1.9: Trauma System Injuries by Mechanism and Race/Ethnicity

	White	Black	Hispanic	Asian/Other	Missing	Total
Vehicle Related	1,582	140	852	246	48	2,868
MV Occupant	848	77	566	180	27	1,698
Motorcycle	266	15	57	18	11	367
Pedalcycle	144	14	68	11	-	237
Pedestrian	163	28	96	24	7	318
Other Vehicle	161	6	65	13	3	248
Falls	719	50	271	90	21	1,151
Sports/Recreation	245	7	74	16	5	347
Overall Violence	322	113	284	49	20	788
Self Inflicted	41	6	13	6	1	67
Assault	281	107	271	<i>4</i> 3	19	721
Other	122	18	88	19	12	259
Unknown	14	4	6	1	1	26
Total	3,004	332	1,575	421	107	5,439

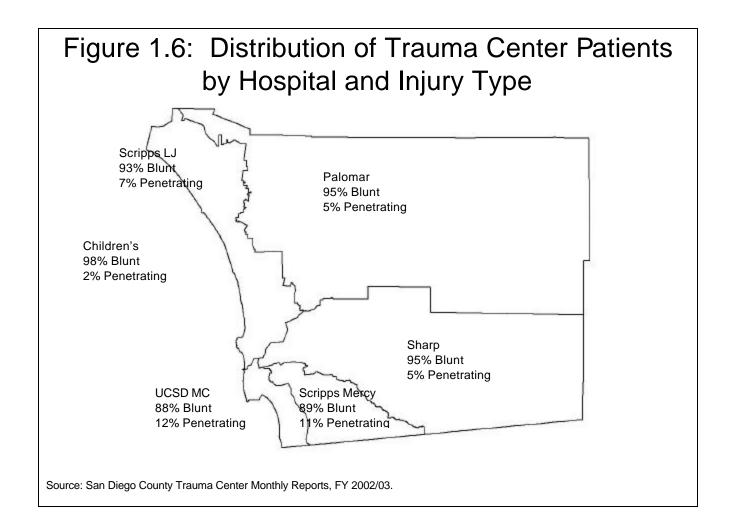
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03.

Table 1.10: Trauma System Deaths by Mechanism and Race/Ethnicity

	White	Black	Hispanic	Asian/Other	Missing	Total
Vehicle Related	211	14	108	32	10	375
MV Occupant	117	9	78	24	8	236
Motorcycle	32	2	3	2	C	39
Pedalcycle	4	0	4	0	C	8
Pedestrian	38	3	22	5	1	69
Other Vehicle	20	0	1	1	1	23
Falls	151	2	22	14	4	193
Sports/Recreation	2	0	0	0	0	2
Overall Violence	177	28	63	20	2	290
Suicide	141	6	20	10	2	179
Homicide	36	22	<i>4</i> 3	10	C	111
Other	31	4	18	3	0	56
Unknown	0	0	0	1	0	1
Total	572	48	211	70	16	917

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03.

Among trauma patients, 93% of injuries were blunt in nature (e.g., motor vehicle related, falls, or assaults with a blunt object). Ninety-eight percent of Children's Hospital and Health Center's trauma patients sustained blunt injuries. Scripps Mercy Hospital and UCSD Medical Center received the highest percentages of penetrating injuries among each facility's trauma patients (11% and 12% of trauma patients at Scripps Mercy and UCSD, respectively). Penetrating injuries include stabs and gunshot wounds.



Trauma System Resources

During fiscal year 2002/03, San Diego County had 21 civilian and two military emergency departments. The 21 civilian hospitals included eight base hospitals, five adult trauma centers, and one pediatric trauma center. The prehospital setting consisted of 21 ground transport agencies equipped to deliver advanced life support (ALS) services, two air transport agencies, and 33 basic life support (BLS) agencies. Half of trauma patients were reported to have been transported to trauma centers by ground ALS ambulance units.

1994/95 1995/96 1996/97 1997/98 1998/99 1999/00 2000/01 2001/02 2002/03 **Transport Mode** # # # % # % % # % # % % # % # % # % Ground ALS 63% 2,740 64%3,268 63%3,143 62%2,610 2,553 62% 2,694 66%3,128 50% 2,652 50% 3,730 65% Air ALS 587 14% 535 13% 484 11% 611 12% 598 12% 525 10% 488 453 9% 450 8% 134 Ground BLS 129 3% 149 4% 126 3% 107 2% 87 2% 106 2% 3% 71 1% 61 1% Air BLS 12 0% 11 0% 0% 12 15 0% 0% 0% 0% 0% 0% 646 15% 16% 13% 17% 16% 672 13% 996 19% 1.132 Interfacility 637 16% 660 668 843 796 20% 148 Walk In 4% 193 5% 206 5% 241 5% 274 5% 261 5% 349 7% 302 6% 273 5% Other/Unreported 19 0% 22 1% 28 1% 44 1% 50 1% 257 5% 916 18% 833 16% 92 2% 4.085|100%|4.250|100%|4.253|100%|4.951|100%|4.995|100%|5.093|100%|5.169|100%| 5.307|100%| 5.739|100% Total

Table 1.11: Trauma Patient Mode of Arrival

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data: FY 1994/95 - 2002/03.

The mean time spent on scene with a trauma patient prior to transport was 16 minutes during fiscal year 2002/03, and ranged from 15 minutes for Basic Life Support (BLS) ground transport agencies to 17 minutes for ground ALS ambulance units. Prolonged scene times can be attributed to the type of call, complicated extrication procedures, road conditions, and difficulty accessing patients.

Scene Time in Minutes 1994/95 1995/96 1996/97 1997/98 1998/99 1999/00 2000/01 2001/02 2002/03 Transport Mea Mea Mea Mode Range Mean Range Mean Range Mean Range Mean Range Mean Range Mean Range n Range n Range n 0-218 15 0-107 15 1-72 16 1-336 18 0-88 18 Ground ALS 0-86 18 0-113 0-55 23 0-110 17 18 Air ALS 4-120 26 5-120 22 1-71 21 5-110 25 4-123 24 2-145 22 0-85 16 0-66 19 0-273 16 1-71 21 1-83 20 6-59 19 4-33 17 5-52 20 5-45 22-37 12-28 9-25 15 Ground BLS 18 21 20 15 Air BLS 5-26 16 29 8-24 14 10-24 11-22 16 20-36 Overall 17 0-120 16 1-72 17 1-336 19 0-123 19 0-145 19 0-113 20 0-218 0-273 17 0-110 16

Table 1.12: Mean Scene Time by Mode of Arrival

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry, FYs 1994/95-2002/03.

Note: Scene times were not reported for all eligible incidents.

Trauma Patient Outcomes

Please note that the following section only includes patients who were admitted to designated trauma centers and does not include patients who died at a non-trauma center or on scene. Of the trauma patients who were admitted to designated trauma centers, 95% survived.

The severity of a trauma patient's injuries is given by the Injury Severity Score (ISS), which gives a measure of the three most severely injured body regions, and increases in relation to the severity of the injuries. Trauma Patients with an ISS of less than 15 have an approximate 99% survival rate in San Diego County. As shown in the table below, as a patient's ISS increases to 15 or more, the survival rate from injuries decreases to 83%.

Table 1.13: Trauma Patient Outcomes by Injury Severity Score

	Injury Severity Score											
	<9		9-14	4	15+							
Fiscal Year	# %		#	%	#	%						
1994/95												
Survived	1,598	99.70%	1,236	99.50%	944	76.00%						
Expired	4	0.30%	5	0.50%	298	24.00%						
1995/96												
Survived	1,851	99.99%	1,321	99.40%	1,072	80.54%						
Expired	1	0.01%	8	0.60%	259	19.46%						
1996/97												
Survived	1,959	99.70%	1,362	99.80%	932	80.00%						
Expired	5	0.30%	3	0.20%	233	20.00%						
1997/98												
Survived	2,297	99.78%	1,381	99.42%	977	81.01%						
Expired	5	0.21%	8	0.58%	229	18.99%						
1998/99												
Survived	2,301	99.57%	1,392	99.00%	1,057	82.71%						
Expired	10	0.21%	14	1.00%	221	17.29%						
1999/00												
Survived	2329	99.53%	1503	99.40%	954	82.81%						
Expired	11	0.47%	9	0.60%	198	17.19%						
2000/01												
Survived	2171	99.31%	1634	99.15%	1038	80.65%						
Expired	15	0.69%	14	0.85%	249	19.35%						
2001/02												
Survived	2265	99.34%	1633	98.97%	1114	83.20%						
Expired	15	0.66%	17	1.03%	225	16.80%						
2002/03*												
Survived	2296	99.48%	1860	99.04%	1254	82.61%						
Expired	12	0.52%	18	0.96%	264	17.39%						

Source: County of San Diego, Health and Human Services Agency,

Division of Emergency Medical Services. San Diego County Trauma Registry: FY 1994/95 to 2002/03. *35 patients had missing injury severity scores during FY 2002/03

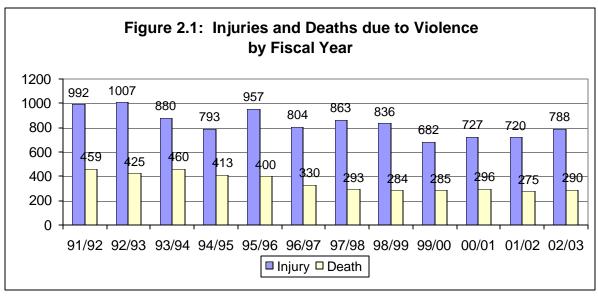
an automatic ISS of 75.

The Injury Severity Score (ISS) is a modification of the Abbreviated Injury Scale (AIS) developed to deal with multiple injuries. The ISS incorporates the AIS scores for the most significant injuries in three different body regions. The ISS is calculated by summing the squares of the AIS scores for these injuries. AIS scores up to five are squared, so that the maximum ISS is 75. An AIS score of 6 in any body region is

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Violent Injuries

Violence that results in injury can be interpersonal (assault, homicide, legal intervention) or self-inflicted (self-inflicted injury or suicide). From FY 1991/92 through 2002/03 there were more than nine times as many non-fatal severe injuries due to interpersonal violence as there were self-inflicted injuries, but the majority of fatal injuries were self-inflicted. The number of non-fatal injuries due to violence (both assault and self-inflicted) decreased by 21% from FY 1991/92 to 2002/03, and deaths declined by 37%.



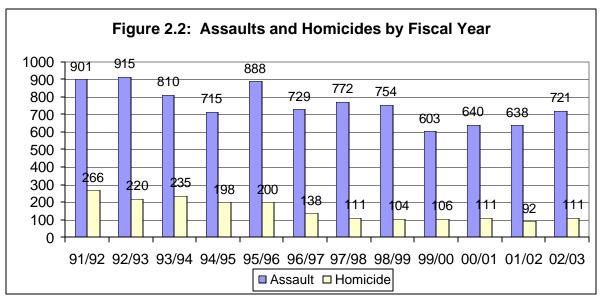
Source: County of san Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92 - 2002/03

<u>Chapter 2</u> Violent Injuries

Homicide and Assault

Homicide was the fourth leading cause of traumatic death and accounted for the third greatest number of years of potential life lost during FY 2002/03. For every homicide, there were 6.5 nonfatal severe assaults.

Over the twelve years shown, the number of assaults decreased by 20% and the number of homicides decreased by 58%. The number of assaults increased by 13% from FY 2001/02 to 2002/03, while the number of homicides increased by 21%.



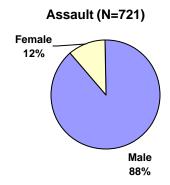
Source: County of san Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92 - 2002/03

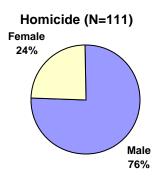
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Males were disproportionately affected by interpersonal violence, with 88% of nonfatal injuries from assaults and 76% of homicides.

The age- and gender-specific assault and homicide rates show that males 20-24 years of age were at highest risk for both assault injuries (98 per 100,000) and homicide (13 per 100,000). The highest-risk age group for females was 20 to 24 years, with an assault rate of 11.4 per 100,000.

Figure 2.3: Assaults and Homicides by Gender





Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data; FY 2002/03.

Table 2.1: Number and Rate (per 100,000) of Assault and Homicide by Age Group and Gender

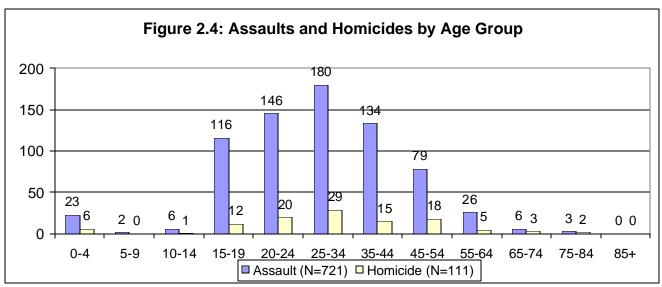
	by rigo croup and condo													
			Assa	ult										
	Male		Femal	Female		Total)	Female		Total		Overall	Total
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
0-4	16	15.79	7	6.99	23	11.41	4	*	2	*	6	2.98	29	14.39
5-9	2	*	0	*	2	*	0	*	C	*	0	*	2	*
10-14	3	×	3	*	6	2.74	1	*	C	*	1	*	7	3.20
15-19	108	91.95	8	7.76	116	52.59	11	9.37	1	*	12	5.44	128	58.03
20-24	134	97.73	12	11.43	146	60.30	18	13.13	2	*	20	8.26	166	68.56
25-34	158	64.63	22	9.88	180	38.53	23	9.41	6	2.69	29	6.21	209	44.74
35-44	118	50.61	16	7.06	134	29.14	10	4.29	5	2.21	15	3.26	149	32.40
45-54	67	35.17	12	6.10	79	20.41	10	5.25	8	4.07	18	4.65	97	25.06
55-64	25	21.75	1	*	26		4	*	1	*	5	2.09	31	12.96
65-74	5	6.84	1	*	6	3.74	2	*	1	*	3	*	9	5.61
75-84	2	*	1	*	3	*	1	*	1	*	2	*	5	4.07
85+	0	*	0	*	0	*	0	*	C	*	0	*	0	*
Unknown	0		0		0		0		C		0		0	
Total	638	42.74	83	5.65	721	24.35	84	5.63	27	1.84	111	3.75	832	28.09

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data; FY 2002/03; Population estimates, SANDAG

^{*}Rates not calculated on less than five incidents

<u>Chapter 2</u> Violent Injuries

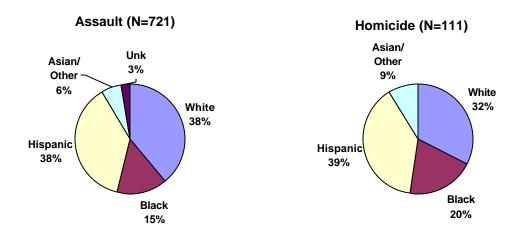
Figure 2.4 shows the age distribution of assault and homicide. Violent interpersonal injuries cluster strongly in teenagers and young adults, with persons aged 15-34 years sustaining 61% of assaults and 55% of homicides.



Source: County of san Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

The Black population was most over represented among assault and homicide victims. In spite of making up only five percent of the county population, 15% of assaults and 20% of homicides were Black.

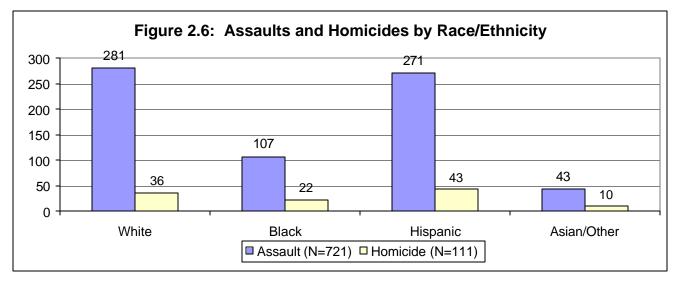
Figure 2.5: Assaults and Homicides by Race/Ethnicity



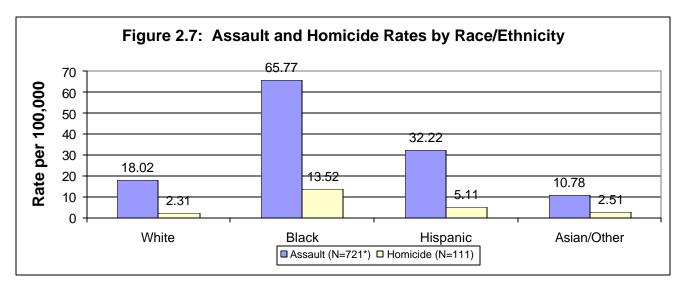
^{*}Totals include 19 assaults with unspecified race/ethnicity Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

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Figure 2.6 shows the number of assaults and homicides by race/ethnicity, while figure 2.7 illustrates the rate per 100,000 population. As these figures show, the highest number of assaults and homicides are seen among the White and Hispanic populations. The rates shown in figure 2.7, however, show that the Black population is at the highest risk of injury and death from assault.

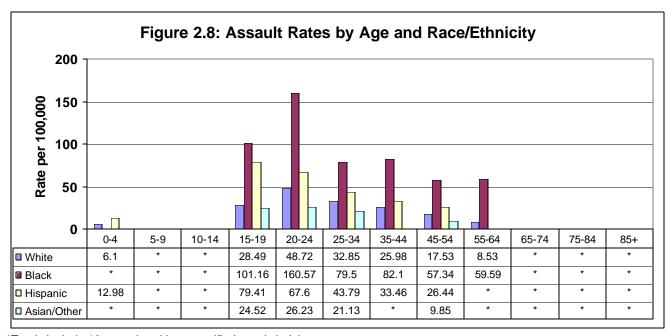


*Totals include 19 assaults with unspecified race/ethnicity.
Source: County of san Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03



*Totals include 19 assaults with unspecified race/ethnicity.
Source: County of san Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

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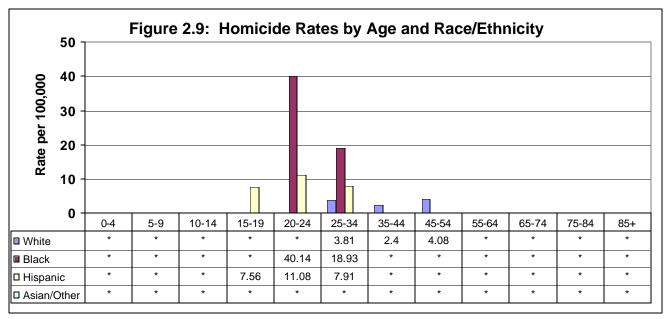


^{*}Totals include 19 assaults with unspecified race/ethnicity.

Note: Rates not calculated on fewer than five incidents

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

Population estimates, SANDAG



Note: Rates not calculated on fewer than five incidents

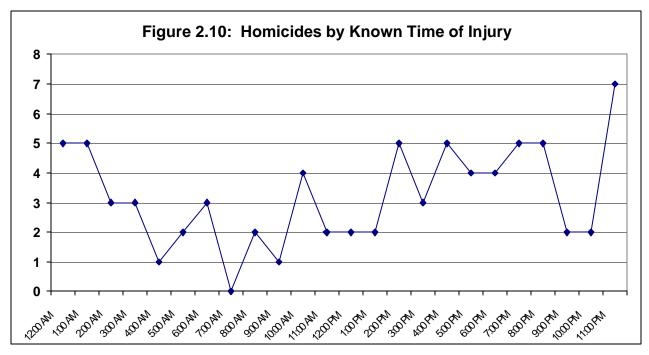
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego

County Trauma Registry and Medical Examiner's Data, FY 2002/03

Population estimates, SANDAG

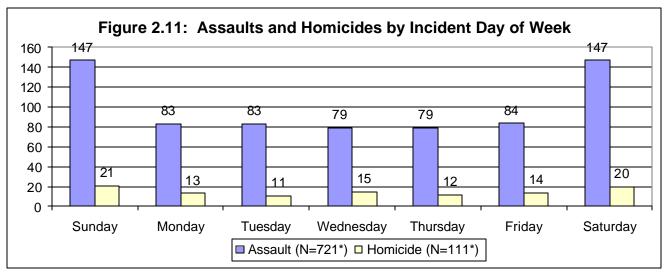
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During FY 2002/03, homicides were most common in the evening hours, with 34% occurring between the hours of 8:00 p.m. and 2:00 a.m. Weekends saw the highest number of assaults and homicides, with 42% of assaults and 39% of homicides taking place on Saturdays and Sundays. The highest number of assaults occurred in November (75), while June 2003 had the greatest number of homicides (17).



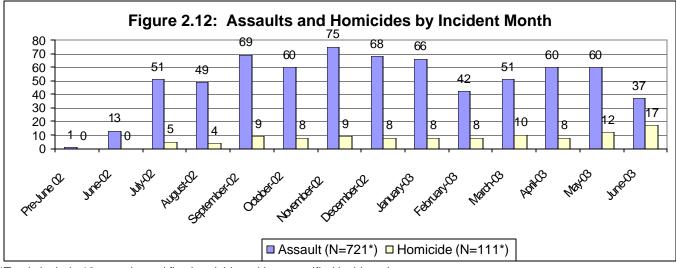
All times are in one hour increments, for example, 6:00 - 6:59 = 6:00
There were 34 homicides with an unidentified time of injury
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical
Services, San Diego County Medical Examiner's Data, FY 2002/03

Chapter 2 Violent Injuries



*Totals include 19 assaults and five homicides with unspecified incident dates.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

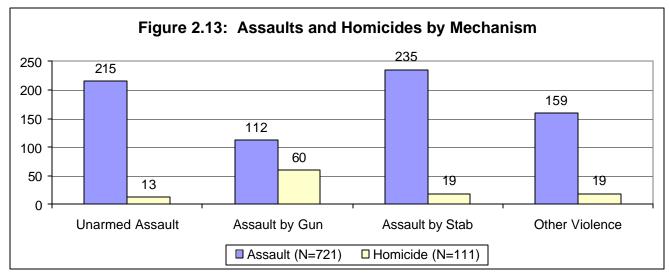


*Totals include 19 assaults and five homicides with unspecified incident dates.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

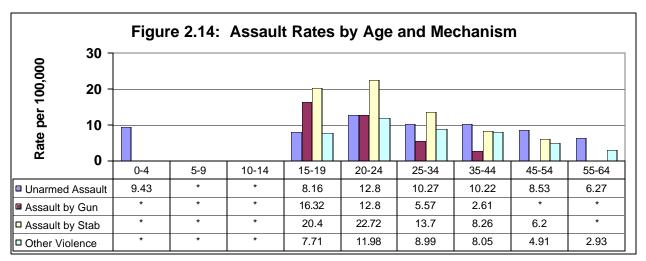
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Figure 2.13 shows a breakdown of mechanism of injury for homicides and assaults. Unarmed assaults and stabbings were the leading causes of nonfatal injury. The leading cause of homicide was gunshot wounds, followed by stabbing and other assaults. Unarmed assaults include any assault not involving a gunshot or stab wound, and can include being pushed from a vehicle, an unarmed brawl or fight, or child abuse.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

Unarmed assault was the primary cause of assault injury for children younger than 5 years and for adults aged 35 and older. Stabbings were more common among trauma patients between 15 and 34 years of age.



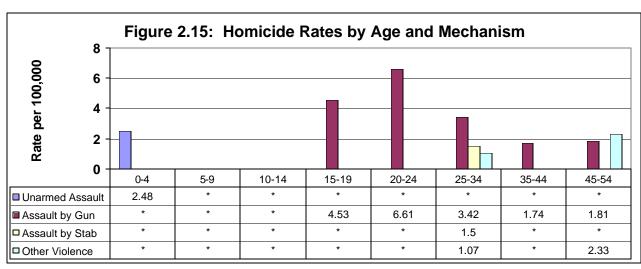
Note: Rates not calculated on fewer than five incidents.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services,

San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

Population estimates, SANDAG

The use of firearms was highly associated with trauma patient fatalities. Firearms were the mechanism in 54% of all traumatic homicides. The highest rate of homicide due to a gunshot wound was among 20-24 year olds (6.61 per 100,000). Firearms were the primary mechanism of injury in homicides for every age group between 15 and 44.



Note: Rates not calculated on fewer than five incidents.

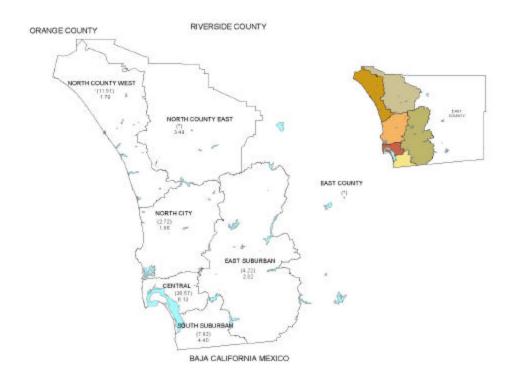
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services,

San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

Population estimates, SANDAG

Rates of injury by subregional areas (SRAs) and Major Statistical Areas (MSAs) were calculated from the zip code where the incident took place. The incident zip code was available for 39% of non-fatal assaults and for 91% of homicides. Homicide and assault rates were highest in the Central MSA. When incident zip code was known, the Central MSA accounted for 60% of assaults and 39% of homicides. Population estimates for each of the MSAs can be found in Appendix B.

Figure 2.16: Assault and Homicide Rates per 100,000 by San Diego Major Statistical Area



Legend

Rates displayed in parentheses () reflect nonfatal assaults while those not in parentheses indicate homicide.

*Rates not calculated on fewer than five incidents.

Please note there were 440 assaults and 10 homicides with an unknown incident zip code.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data: FY 2002/03; Population estimates, San Diego Association of Governments (SANDAG)

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Table 2.2: Homicides and Assaults by Mechanism and San Diego County MSA and SRA

	ic Z.Z. Hollificiaes		d Assault		nshot		bbing			Overal
MSA	SRA	Assault	Homicide	Assault	Homicide	Assault		Assault		Total
CENTRAL	Central San Diego	32	1	10		11		9		68
	Peninsula	2	0	0		1			C) 5
	Coronado	0	0	0	0	0	0	C	C	
	National City	1	0	4	5	7	0	2	1	20
	Southeast San Diego	4	0	29	11	17	2	7	. 2	72
	Mid-City	11	2	1	5	12	1	8	3	3 43
	Total	50		44	24	48		27		208
	Kearny Mesa	4	0	0	0	1		2		2 10
	Coastal	5	1	0	4	2	0	2	1	15
	University	1	0	0	0	0		C	C) 1
	Del Mar-Mira Mesa	0	0	0	0	1	0	C	C) 1
	North San Diego	0	1	0	0	0	1	C	C) 2
	Poway	1	1	0	1	0	0	C	C) 3
	Miramar	0	0	0	0	0	0	C	C) (
	Elliott-Navajo	0	0	0	0	0	0	C	C) (
	Total	11	3	0	5	4	2	4		3 32
	Sweetwater	1	0	0	0	1	0	C) 2
SUBURBAN	Chula Vista	2	0	1	3	9	3	2	2	2 22
	South Bay	3	2	0	4	6		2		18
	Total	6	2	1	7	16		4		2 42
	Jamul	0	0	0	0	0		C) (
SUBURBAN	Spring Valley	2	0	1	0	2		1		7
	Lemon Grove	2	0	0	0	3		1		7 7
	La Mesa	1	0	1	0	0		1	1	1 4
	El Cajon	1	0	<u>.</u> 1	4	2	_) 8
	Santee	1	0	0	1	0		0		
	Lakeside	0	1	0	0	0		0) 1
.	Harbison Crest	0	0	0	1	0	1	C	0) 2
	Alpine	0	0	0	0	0		0		
	Ramona	0	0	0	0	0	_	C	0) (
L	Total	7	1	3	6	7	3	3	_	31
	San Dieguito	2	0	1	0	4	0	3		10
	Carlsbad	1	1	0	1	2	0	1	1	7
	Oceanside	6	1	2	2	18		4		33
L	Pendleton	0	0	0	1	1		C	0) 2
L	Total	9	2	3	4	25	0	8	_	52
	Escondido	0	0	0	6	0		C		3
	San Marcos	0	0	0	0	0		C	1	
	Vista	0	0	0	1	1		C) 3
	Valley Center	0	0	0	1	0	0	C	C) 1
	Pauma	0	0	0		0	0	0	0) (
	Fallbrook	0	0	0	4	0	0	C	Č) 1
	Total	0	0	0	9	1	3			
	Palomar-Julian	0	0	0	_	0	~	C	_	
	Laguna-Pine Valley	0	0	0	-	0	-	C	0) (
L	Mountain Empire	0	0	0		0	-	0		1 2
	Anza Borrego Springs	0	0	0		0		_		
L	Total	0	0	0		0	-	0	_	2
	Out of County	0	0	0	0	0		C		
UNKNOWN		132	2	61	5	134		113	-	450
		132		61	5	134		113		
L	Total	1.32	/			1.34		11.3	2	421

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2002/03

Table 2.3: Homicides and Assaults by Mechanism and County Major Statistical Area

	Unarme	d Assault	Gur	shot	Sta	bbing	Other	Assault	Ov	Overall	
MSA	Assault	Homicide	Assault	Homicide	Assault	Homicide	Assault	Homicide	Assault	Homicide	Total
Center	50	3	44	24	48	5	27	7	169	39	208
North City	11	3	0	5	4	2	4	3	19	13	32
S Suburban	6	2	1	7	16	4	4	2	27	15	42
E Suburban	7	1	3	6	7	3	3	1	20	11	31
North Cnty West	9	2	3	4	25	0	8	1	45	7	52
North Cnty East	0	0	0	9	1	3	0	2	1	14	15
East Cnty	0	0	0	0	0	1	0	1	0	2	2
Oth/Unk	132	2	61	5	134	1	113	2	440	10	450
Overall Total	215	13	112	60	235	19	159	19	721	111	832

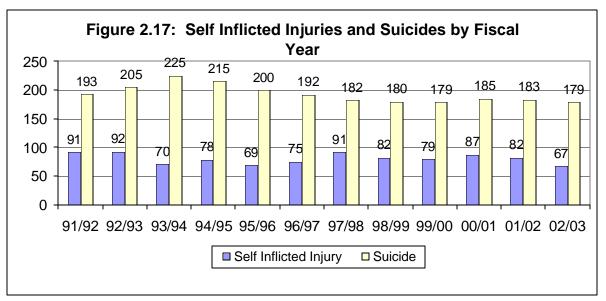
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 2002/03

<u>Chapter 2</u> Violent Injuries

Suicides and Self-Inflicted Injuries

Suicide¹ was the third leading cause of traumatic death and second leading contributor to years of potential life lost during FY 2002/03.

The figure below shows the number of suicides and self-inflicted injuries by fiscal year. The number of traumatic suicides peaked in FY 1993/94 (225), and reached a plateau starting in 1997/98 through 2002/03 when the average annual change was less than 0.5%. FY 2002/03 had the lowest number of non-fatal self-inflicted injuries during the twelve years shown, dropping 13% from the previous year.



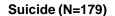
Source: County of san Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92 - 2002/03

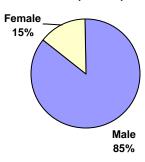
¹ For the purpose of this report, suicide and self inflicted injury exclude deaths and severe injuries due to poisoning, drowning, or suffocation as they are considered medical rather than traumatic in nature.

Figure 2.18: Self-Inflicted Injuries and Suicides by Gender



Female 22% Male 78%





Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY2002/03; Population Estimates, SANDAG

Males made up 78% of traumatic self-inflicted injuries and 85% of suicides. As Table 2.4 shows, the traumatic suicide rate is highest among older men, with the rate among 75 to 84 year olds three times higher, and that for men 85 years and older nearly five times higher than the rate for all ages combined.

Table 2.4: Number and Rate (per 100,000) of Self-Inflicted Injury and Suicide by Age Group and Gender

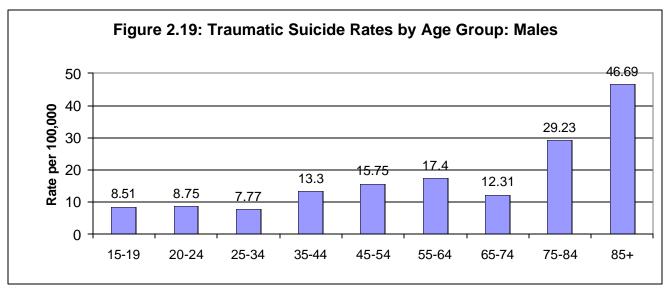
		Sel	f-Inflicted	l Iniu	rv		- Сир син		Suicio	de				
	Male		Female		Total		Mal	e	Fema		Tota	al	Overall	Total
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
0-4	0	*	1	*	1	*	0	*		*	0	*	1	*
5-9	1	*	C	*	1	*	0	*	C	*	0	*	1	*
10-14	2	*	C	*	2	*	0	*	· (*	0	*	2	*
15-19	3	*	C	*	3	*	10	8.51	1	*	11	4.99	14	6.35
20-24	12	8.75	3	*	15	6.20	12	8.75	1	*	13	5.37	28	11.56
25-34	10	4.09	4	*	14	3.00	19	7.77	5	2.25	24	5.14	38	8.13
35-44	4	*	5	2.21	9	1.96	31	13.30	5	2.21	36	7.83	45	9.79
45-54	12	6.30	2	*	14	3.62	30	15.75	5	2.54	35	9.04	49	12.66
55-64	3	*	C	*	3	*	20	17.40	3	*	23	9.61	26	10.87
65-74	2	*	C	*	2	*	9	12.31	1	*	10	6.24	12	7.49
75-84	2	*	C	*	2	*	15	29.23	5	6.99	20	16.28	22	17.91
85+	1	*	C	*	1	*	7	46.69	C	*	7	16.50	8	18.85
Total	52	3.48	15	1.02	67	2.26	153	10.25	26	1.77	179	6.04	246	8.31

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 2002/03; Population Estimates, SANDAG

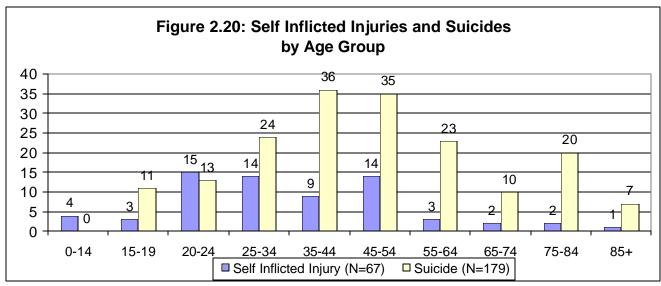
^{*}Rates not calculated on less than five incidents.

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While the highest rates of suicide were found in elderly males, the highest numbers of nonfatal injury, and therefore the group with the greatest impact on the trauma system, were younger than 45 years. Sixty seven percent of nonfatal self-inflicted injuries and 47% of completed traumatic suicides were in this age range.



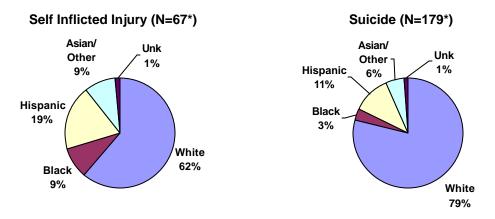
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY2002/03; Population Estimates, SANDAG



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY2002/03; Population Estimates, SANDAG

Self-inflicted injury and suicide were most prevalent in the White population, which made up 54% of the population, but accounted for 62% of self-inflicted injuries and 79% of suicides.

Figure 2.21: Self Inflicted Injuries and Suicides by Race/Ethnicity

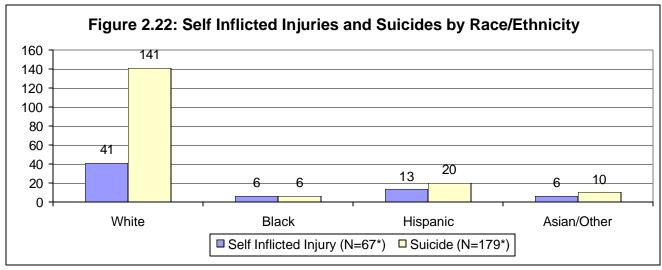


Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 2002/03

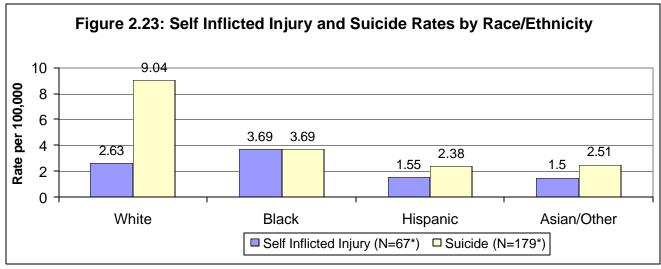
^{*}Totals include one self-inflicted injury and two suicides of undetermined race/ethnicity.

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The traumatic suicide rate in the White population was more than twice as high as any other race/ethnic group. The rate of nonfatal injuries per 100,000 population, however, was comparable to other groups.



^{*}Totals include one self-inflicted injury and two suicides with unspecified race/ethnicity.
Source: County of san Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

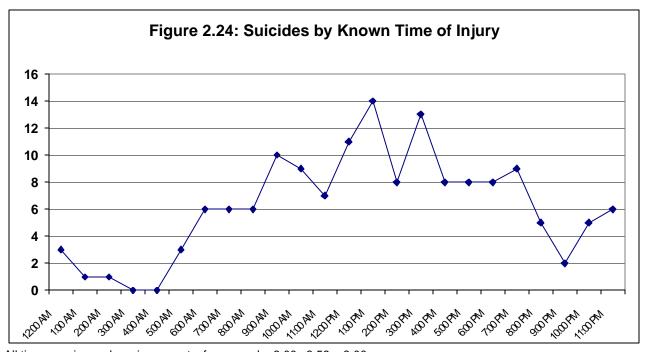


^{*}Totals include one self-inflicted injury and two suicides with unspecified race/ethnicity.

Source: County of san Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

^{**}Rates not calculated for fewer than five incidents.

The majority of suicides were reported to have occurred during daytime hours, with 71% of incidents between 6 a.m. and 6 p.m.



All times are in one hour increments, for example, 6:00 - 6:59 = 6:00

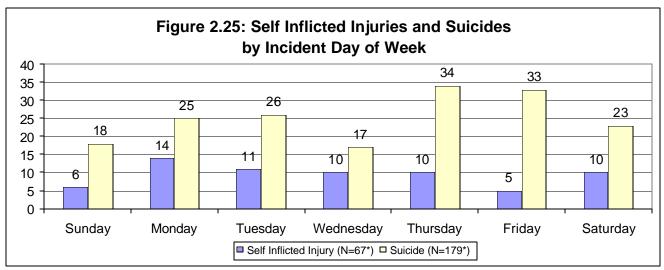
There were 30 suicides with an unidentified time of injury

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Medical Examiner's Data, FY 2002/03

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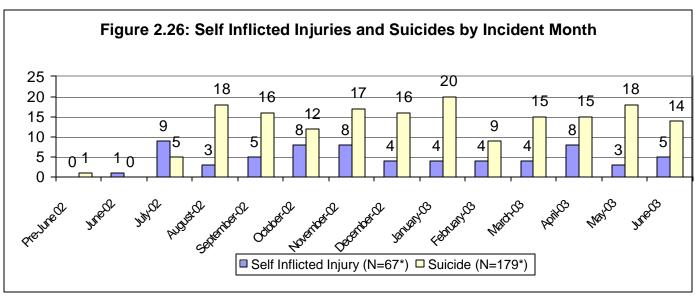
Thursday and Friday had the greatest number suicides (37% of total). Mondays had the highest number of nonfatal self-inflicted injuries (14).

January had the highest number of suicides (20), while July had the highest number of nonfatal self-inflicted injuries (9).



*Totals include one self-inflicted injury and three suicides with unspecified incident dates.

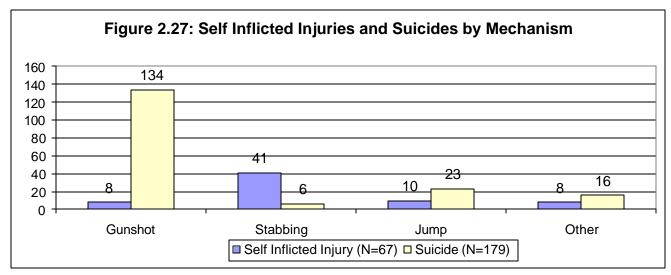
Source: County of san Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03



^{*}Totals include one self-inflicted injury and three suicides with unspecified incident dates.

Source: County of san Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

Nonfatal self-inflicted injuries were very different from completed suicides with regard to the mechanism of injury. Gunshot wounds were the mechanism for 75% of completed suicides, but only made up 12% of nonfatal self-inflicted injuries. Self-inflicted cut or stab wounds, meanwhile, made up only 3% of completed suicides, but 61% of nonfatal self-inflicted injuries.

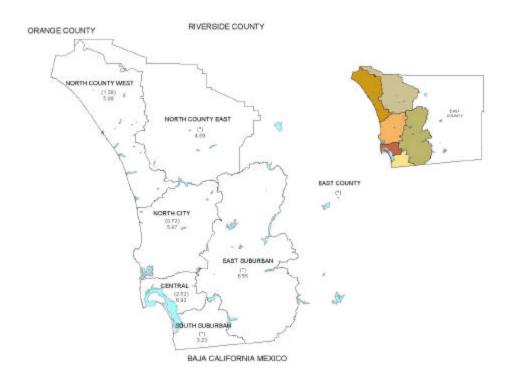


Source: County of san Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

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Incidence and rates of injury by subregional areas (SRA) and Major Statistical Areas (MSA) were calculated from the zip code where the incident took place. The incident zip code was available for 49% of non-fatal self-inflicted injuries and for 97% of suicides. The highest rates of both suicide and self-inflicted injury were in the Central MSA. Population estimates for each of the MSAs can be found in Appendix B.

Figure 2.28: Self-Inflicted Injury and Suicide Rates per 100,000 by San Diego Major Statistical Area



Legend

Rates displayed in parentheses () reflect self-inflicted injury while those not in parentheses indicate suicide.

*Rates not calculated on fewer than five incidents.

Please note there were 34 self-inflicted injuries and 5 suicides with an unknown incident zip code.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data: FY 2002/03; Population estimates, San Diego Association of Governments (SANDAG)

Table 2.5: Self-Inflicted Injuries and Suicides by Mechanism and Major Statistical Area

	Gun	shot	Stab	bing	Ju	mp	Otl	her	
	Injury	Death	Injury	Death	Injury	Death	Injury	Death	Overall Total
Center	0	23	12	2	2	15	2	4	60
North City	1	30	3	0	0	5	1	6	46
S Suburban	0	10	2	1	1	0	1	C	15
E Suburban	1	28	1	1	0	1	0	1	33
North Cnty West	0	18	3	1	2	0	0	4	28
North Cnty East	0	18	0	1	0	0	0	1	20
East Cnty	0	4	1	0	0	0	0	C	5
Oth/Unk	6	3	19	0	5	2	4	C	39
Overall Total	8	134	41	6	10	23	8	16	246

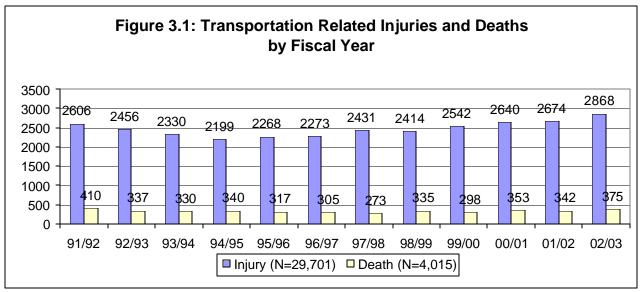
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 2002/03

Chapter 2	Violent Inju	ries

Transportation Related Injuries

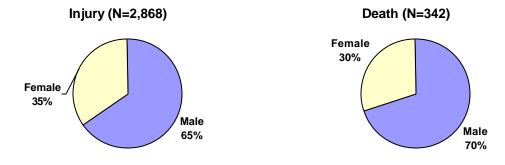
Transportation related crashes are those that occur to motor vehicle occupants, motorcyclists, pedalcyclists, pedestrians struck by motor vehicles, and other vehicle occupants. There were 375 lives lost in transportation related crashes during FY 2002/03. For every patient who died as a result of a transportation related crash, more than seven others were injured in such a crash.

The number of severe injuries due to transportation related crashes increased significantly by seven percent from the previous fiscal year, while the number of deaths increased by ten percent.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92 –2002/03

Figure 3.2: Transportation Related Injuries and Deaths by Gender



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data; FY 2002/03.

Males made up 65% of injuries and 70% of deaths related to transportation. Rates of both injury and death were substantially higher in males for all ages.

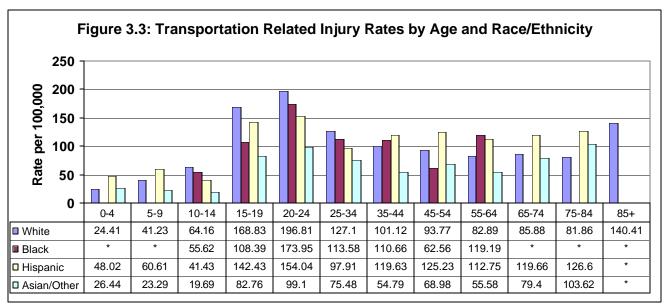
Table 3.1: Number and Rate (per 100,000)* of Transportation Related Injury and Death by Age Group and Gender

	is y rigo eroup and contact													
			Inju	ry					Deat	th				
	Male		Female		Tot	Total		le	Female		Tota	al	Overall	Total
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
0-4	44	43.41	22	21.97	66	32.76	9	8.88	1	*	10	4.96	76	37.72
5-9	50	49.25	39	39.83	89	44.63	2	*	1	*	3	*	92	46.13
10-14	72	63.73	35	33.00	107	48.85	2	*	0	*	2	*	109	49.76
15-19	198	168.57	121	117.35	319	144.63	22	18.73	15	14.55	37	16.77	356	161.40
20-24	282	205.66	123	117.13	405	167.27	38	27.71	8	7.62	46	19.00	451	186.27
25-34	360	147.25	155	69.61	515	110.24	49	20.04	17	7.63	66	14.13	581	124.37
35-44	323	138.53	152	67.06	475	103.30	45	19.30	18	7.94	63	13.70	538	117.00
45-54	249	130.70	128	65.12	377	97.40	28	14.70	10	5.09	38	9.82	415	107.21
55-64	130	113.11	77	61.92	207	86.51	26	22.62	15	12.06	41	17.13	248	103.64
65-74	77	105.32	64	73.41	141	87.97	13	17.78	12	13.76	25	15.60	166	103.56
75-84	53	103.27	56	78.28	109	88.72	14	27.28	10	13.98	24	19.53	133	108.25
85+	29	193.44	28	102.03	57	134.32	10	66.70	6	21.86	16	37.70	73	172.02
Unknown	1		0		1		3		1		4		5	
Total	1868	125.12	1000	68.09	2,868	96.84	261	17.48	114	7.76	375	12.66	3,243	109.50

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data FY 2002/03; Population estimates, SANDAG

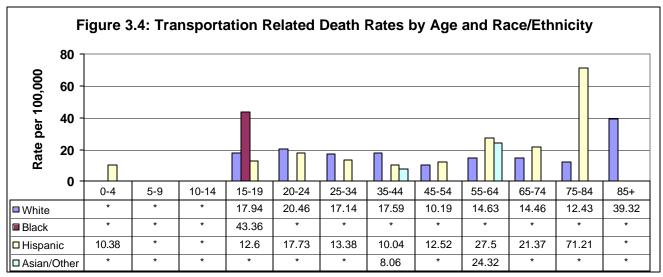
^{*}Rates not calculated on fewer than five incidents

The highest overall rates of transportation related injury were in the 15 to 19 and 20 to 24 year age groups, with the White population showing the highest rates within these age groups (169 and 197 per 100,000 among Whites age 15 to 19 and 20 to 24, respectively. Past this age range, the injury rate dropped dramatically in the White population, but remained over 100 per 100,000 among Hispanics through age 75 to 84. Death rates were highest among Hispanics between 75 and 84 years of age.



Note: Rates not calculated on fewer than five incidents

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03 Population estimates, SANDAG

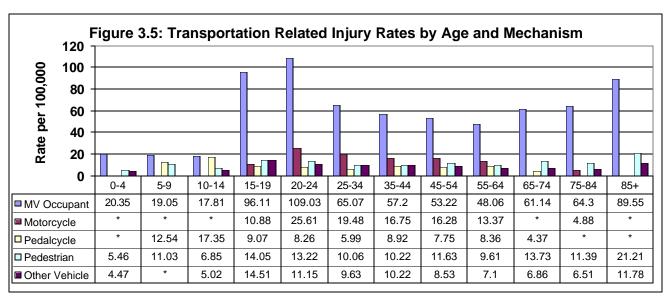


Note: Rates not calculated on fewer than five incidents

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

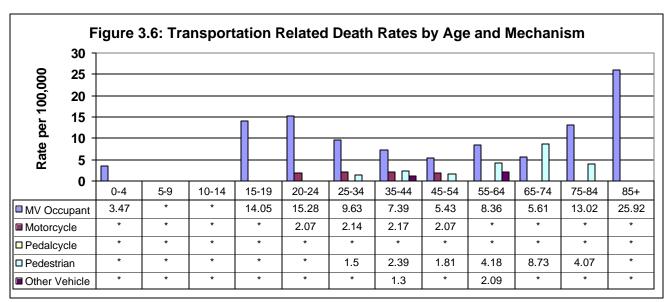
Population estimates, SANDAG

Motor vehicle occupant crashes accounted for a significantly higher rate of death and severe injury than other transportation related mechanisms of injury for most age groups. The highest rate of transportation related severe injury was found in motor vehicle occupants aged 20-24 (109 injuries per 100,000 population), while the highest death rate was among motor vehicle occupants 85 years of age and older (26 deaths per 100,000 population).



Note: Rates not calculated on fewer than five incidents

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03 Population estimates, SANDAG

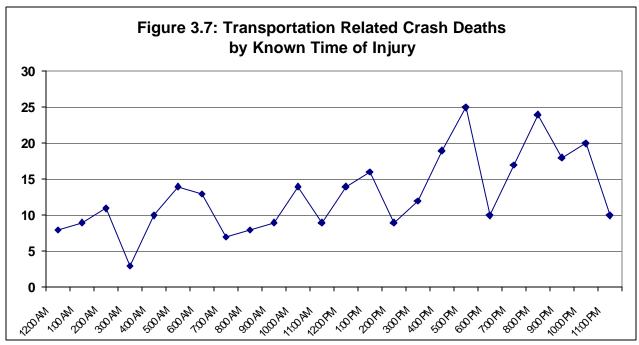


Note: Rates not calculated on fewer than five incidents

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

Population estimates, SANDAG

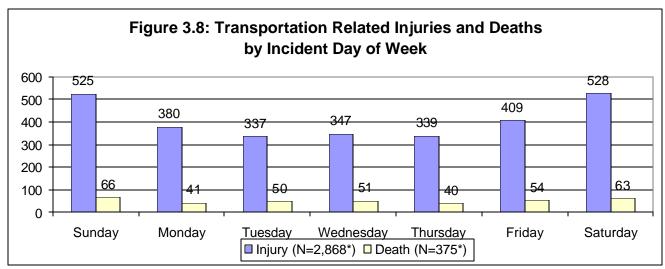
Transportation-related deaths were most likely to occur during the evening hours, with 43% occurring between 4:00 and 11:00 pm. Saturdays and Sundays experienced the greatest numbers of injuries and deaths (37% of injuries, 35% of deaths).



All times are in one hour increments, for example, 6:00 - 6:59 = 6:00

There were 66 deaths with an unidentified time of injury

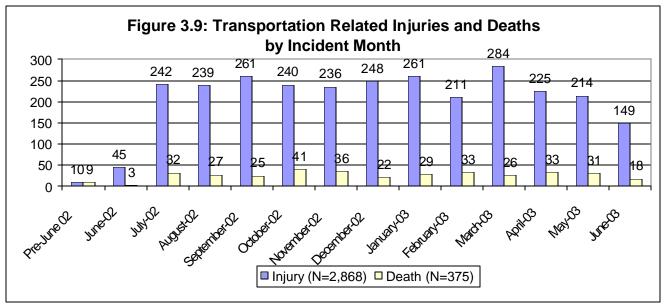
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Medical Examiner's Data, FY 2002/03



^{*}Three injuries and 10 deaths had unspecified incident dates

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

There was no clear seasonal pattern to transportation related injuries and deaths. The month with the greatest number of injuries was March (284), while October had the highest number of deaths (41).



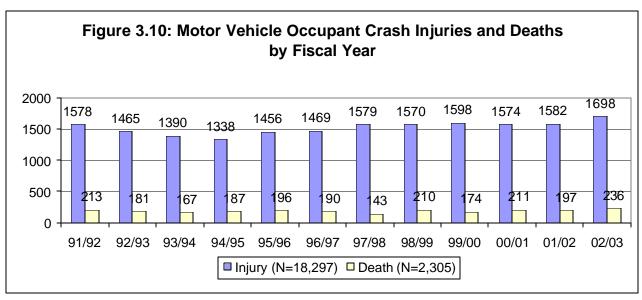
^{*}Three injuries and 10 deaths had unspecified incident dates.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services,

San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

Motor Vehicle Occupant Crash Injuries

The number of motor vehicle occupant crash injuries increased significantly by 7% from FY 2001/02 to 2002/03, while deaths increased by 20%.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92–2002/03

Males accounted for 56% of injuries and 67% of deaths to motor vehicle occupants.

Figure 3.11: Motor Vehicle Occupant Crash Injuries and Deaths by Gender



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

Injury rates were highest in the 20 to 24 year age group (109 per 100,000), and death rates were highest among those 85 years of age and older (26 per 100,000).

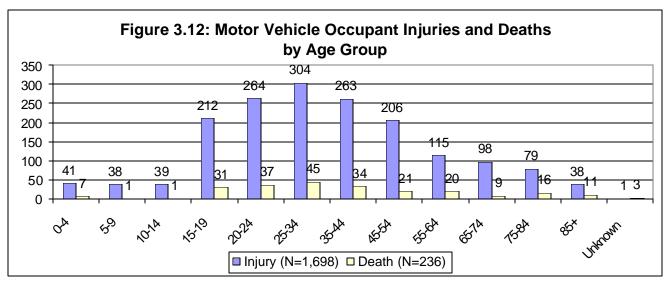
Table 3.2: Number and Rate* (per 100,000) of Motor Vehicle Occupant Injury and Death by Age Group and Gender

							-							
			Inju	ry					Dea	th				
	Ma	ale	Female		Tot	al	Ma	le	Fem	ale	Tota	al	Overall	Total
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
0-4	26	25.65	15	14.98	41	20.35	6	5.92	1	*	7	3.47	48	23.82
5-9	16	15.76	22	22.47	38	19.05	1	*	0	*	1	*	39	19.56
10-14	18	15.93	21	19.80	39	17.81	1	*	0	*	1	*	40	18.26
15-19	114	97.06	98	95.04	212	96.11	17	14.47	14	13.58	31	14.05	243	110.17
20-24	162	118.15	102	97.13	264	109.03	30	21.88	7	6.67	37	15.28	301	124.31
25-34	183	74.85	121	54.34	304	65.07	34	13.91	11	4.94	45	9.63	349	74.71
35-44	157	67.34	106	46.77	263	57.20	24	10.29	10	4.41	34	7.39	297	64.59
45-54	114	59.84	92	46.80	206	53.22	13	6.82	8	4.07	21	5.43	227	58.64
55-64	62	53.95	53	42.62	115	48.06	10	8.70	10	8.04	20	8.36	135	56.42
65-74	46	62.92	52	59.65	98	61.14	5	6.84	4	*	9	5.61	107	66.75
75-84	34	66.25	45	62.90	79	64.30	9	17.54	7	9.78	16	13.02	95	77.32
85+	16	106.72	22	80.16	38	89.55	6	40.02	5	18.22	11	25.92	49	115.47
Unknown	1	*	0	*	1	*	2	*	1	*	3	*	4	*
Total	949	63.57	749	51.00	1,698	57.33	158	10.58	78	5.31	236	7.97	1,934	65.30

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data; FY 2002/03; Population estimates, SANDAG

^{*}Rates not calculated on fewer than five incidents

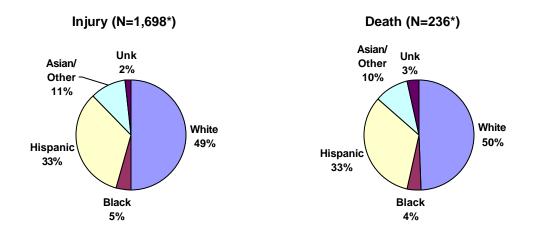
As illustrated in figure 3.12, more than half of injuries and deaths due to motor vehicle occupant (MVO) crashes are to younger adults (ages 15-44). During FY 2002/03, 61% of injuries and 63% of deaths due to MVO crashes occurred to individuals between 15 and 44 years of age.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

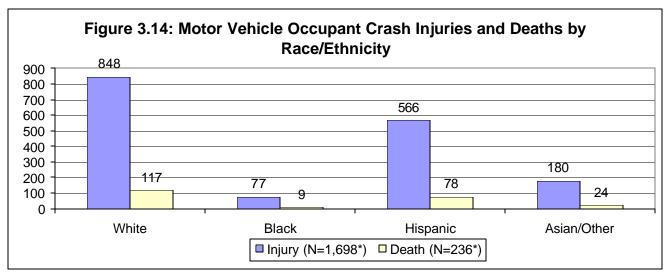
Hispanics were slightly over represented among MVO crash injuries and deaths, making up 28% of the total county population, but 33% of injuries and deaths during FY 2002/03.

Figure 3.13: Motor Vehicle Occupant Crash Injuries and Deaths by Race/Ethnicity

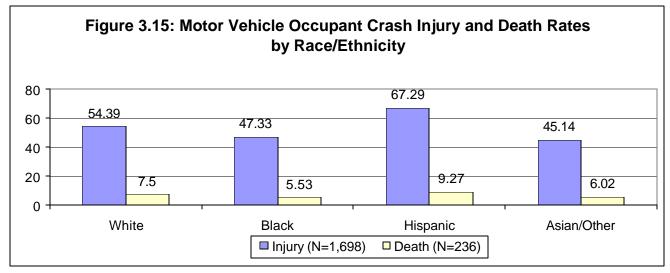


*Totals include 27 injuries and eight deaths with unspecified race/ethnicity.
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services.
San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

While Whites accounted for half of injuries and deaths due to MVO crashes, the highest rates of injury and death were in the Hispanic population (67 injuries and 9 deaths per 100,000).

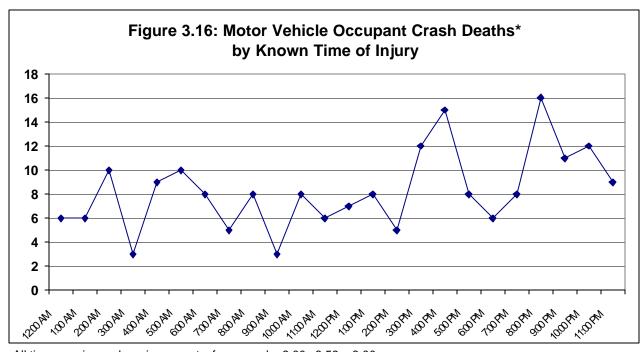


*Totals include 27 injuries and eight deaths with unspecified race/ethnicity.
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services.
San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03



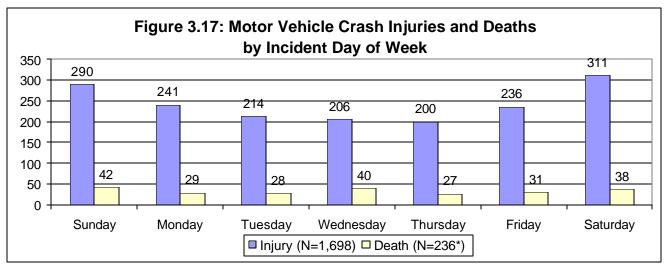
^{*}Totals include 46 injuries and three deaths with unspecified race/ethnicity.
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services.
San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

The peak hours for fatal MVO crashes were during the 4:00 pm and 8:00 pm hours. Although 34% of deaths occurred on weekends, there was an unusually high number of fatal MVO crashes on Wednesdays (17%). March was the month with the most injuries, while February and May had the highest number of deaths.



All times are in one hour increments, for example, 6:00 - 6:59 = 6:00

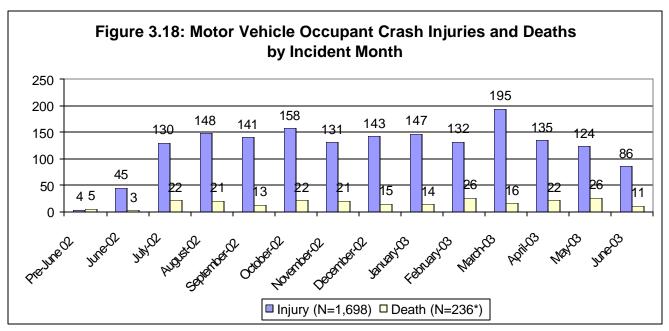
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Medical Examiner's Data, FY 2002/03



^{*}Totals include one death with unspecified incident date.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

^{*}There were 37 deaths with an unidentified time of injury

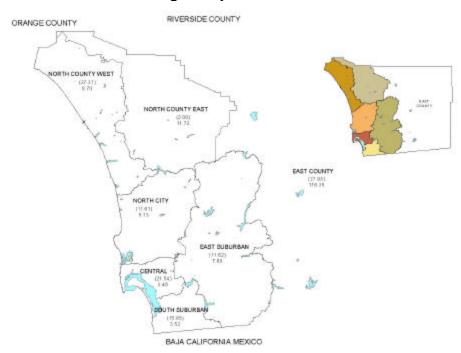


*Totals include one death with unspecified incident date.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

Incidence and rates of injury by subregional areas (SRA) and Major Statistical Areas (MSA) were calculated from the zip code where the incident took place. The incident zip code was available for 26% of non-fatal MVO injuries and for 92% of deaths from MVO crashes. The highest rates of both injury and death from MVO crashes were in the sparsely populated East County region (28 injuries and 116 deaths per 100,000). Population estimates for each of the MSAs can be found in Appendix B.

Figure 3.19: Motor Vehicle Occupant Injury and Death Rates per 100,000 by San Diego Major Statistical Area



Legend

Rates displayed in parentheses () reflect injuries while those not in parentheses indicate deaths.

*Rates not calculated on fewer than five incidents.

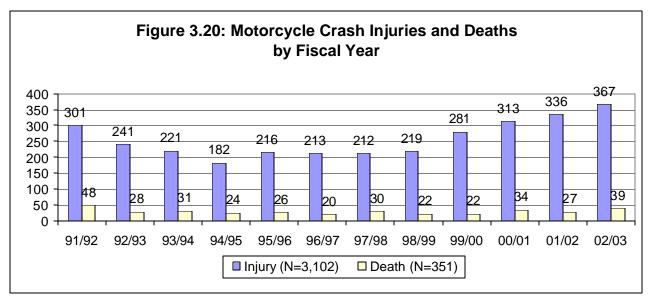
Please note there were 1,249 injuries and 20 deaths with an unknown incident zip code.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data: FY 2002/03; Population estimates, SANDAG.

Motorcycle Crash Injuries

On average, for every trauma death due to a motorcycle crash during FY 2002/03, there were over 9 more severe injuries from such a crash.

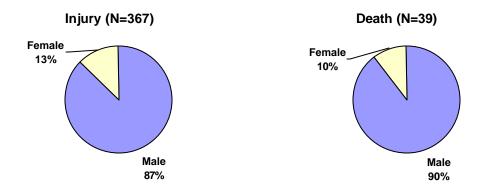
California enacted its mandatory helmet law for all motorcycle riders in 1991. From FY 1991/92 to 1994/95, the number of injuries dropped 40%. Since FY 1994/95, the annual number of injuries has doubled, although the number of deaths from motorcycle crashes has remained low. Motorcycle injuries increased 9% from FY 2001/02 to FY 2002/03, while deaths increased by 44%.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92–2002/03

The majority of people who were injured or killed in motorcycle crashes during FY 2002/03 were male: 87% of injuries and 90% of deaths. The highest rate of injury was in males 20-24 years of age (42 per 100,000).

Figure 3.21: Motorcycle Crash Injuries and Deaths by Gender



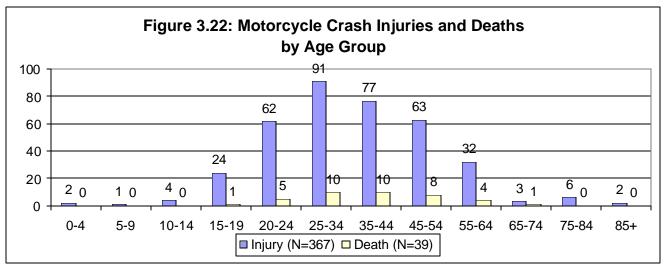
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

Table 3.3: Number and Rate* (per 100,000) of Motorcycle Injury and Death by Age Group and Gender

			Inju	iry			_		Dea	th				
	Mal	le	Fem	ale	Tot	al	Mal	le	Female		Tota	al	Overall Tota	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
0-4	2	*	0	*	2	*	0	*	0	*	0	*	2	*
5-9	0	*	1	*	1	*	0	*	0	*	0	*	1	*
10-14	4	*	0	*	4	*	0	*	0	*	0	*	4	*
15-19	19	16.18	5	4.85	24	10.88	1	*	0	*	1	*	25	11.33
20-24	58	42.30	4	*	62	25.61	5	3.65	0	*	5	2.07	67	27.67
25-34	83	33.95	8	3.59	91	19.48	9	3.68	1	*	10	2.14	101	21.62
35-44	66	28.31	11	4.85	77	16.75	10	4.29	0	*	10	2.17	87	18.92
45-54	54	28.34	9	4.58	63	16.28	7	3.67	1	*	8	2.07	71	18.34
55-64	29	25.23	3	*	32	13.37	3	*	1	*	4	*	36	15.04
65-74	2	*	1	*	3	*	0	*	1	*	1	*	4	*
75-84	3	*	3	*	6	4.88	0	*	0	*	0	*	6	4.88
85+	0		2		2		0		0		0		2	
Total	320	21.43	47	3.20	367	12.39	35	2.34	4	*	39	1.32	406	13.71

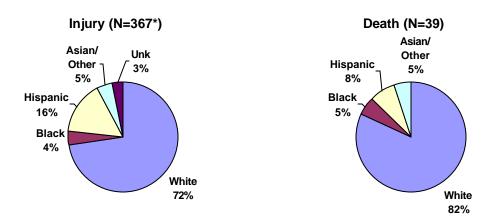
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data; FY 2002/03; Population estimates, SANDAG. *Rates not calculated on fewer than five incidents

Those who were injured in motorcycle crashes were primarily younger adults, with 42% between 20 and 34 years of age.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

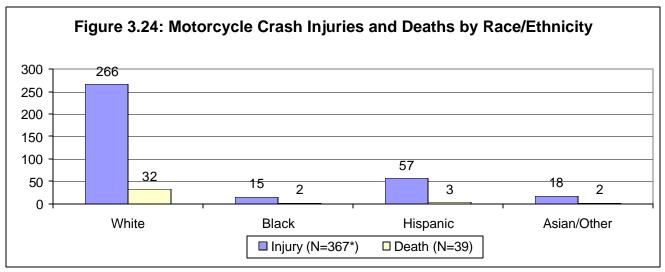
Figure 3.23: Motorcycle Crash Injuries and Deaths by Race/Ethnicity



^{*}Totals include 11 injuries of unspecified race/ethnicity.

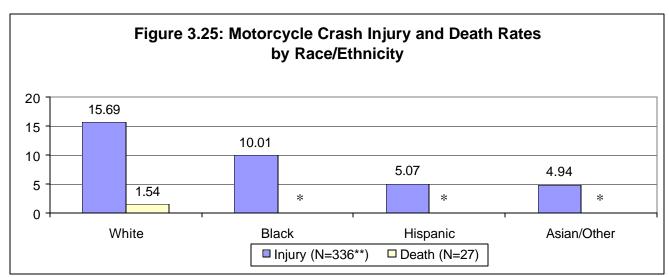
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

During FY 2002/03, the White population had the highest incidence and rate of deaths and severe injuries due to motorcycle crashes. Seventy-two percent of severe injuries and 82% of deaths occurred in the White population, which made up about 54% of the total county population.



^{*}Totals include 11 injuries with unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03



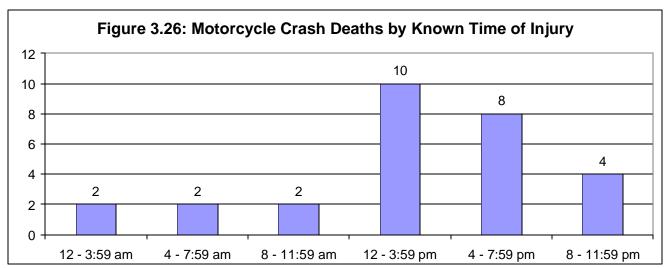
^{*}Rates not calculated on fewer than five incidents

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services.

San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

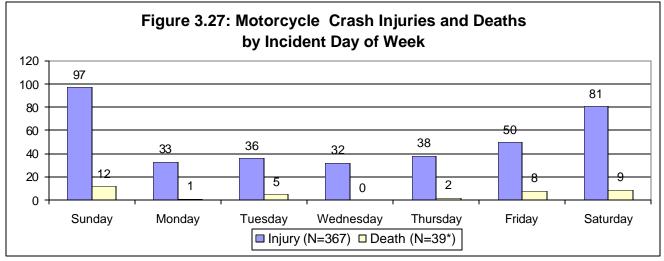
^{**}Totals include 11 injuries with unspecified race/ethnicity.

Fatal motorcycle crashes occurred primarily in the afternoon and early evening hours, with 64% occurring between noon and 8 pm. Forty nine percent of injuries and 56% of deaths occurred on Saturdays and Sundays. September was the month with the highest number of motorcycle crash injuries, while March had the greatest number of deaths.



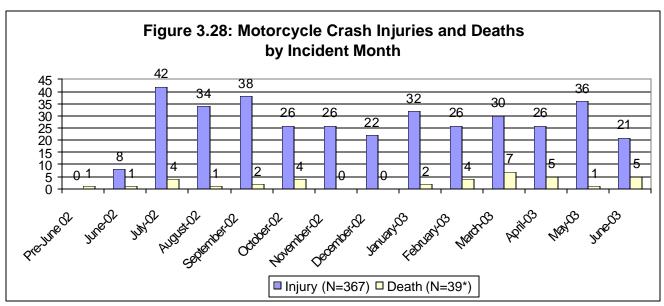
There were 11 deaths with an unidentified time of injury

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Medical Examiner's Data, FY 2002/03



^{*}Totals include two deaths with unspecified incident dates.

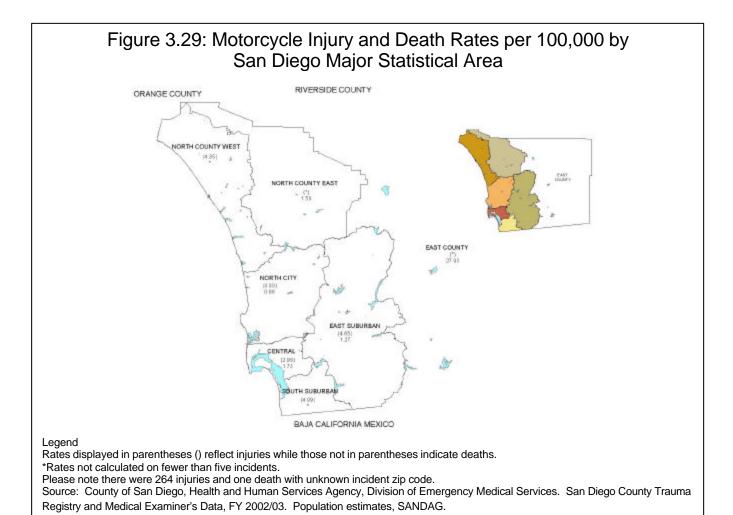
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03



^{*}Totals include two deaths with unspecified incident dates.

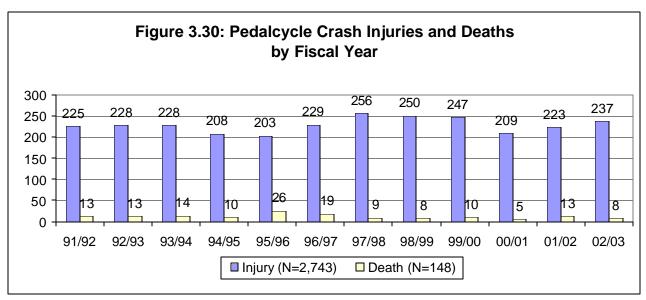
Source: County of san Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

Incidence and rates of injury by subregional areas (SRA) and Major Statistical Areas (MSA) were calculated from the zip code where the incident took place. The incident zip code was available for 28% of non-fatal motorcycle injuries and for 97% of deaths from motorcycle crashes. The East County MSA had the highest death rate due to motorcycle crashes. Population estimates for each of the MSAs can be found in Appendix B.



Pedalcycle Crash Injuries

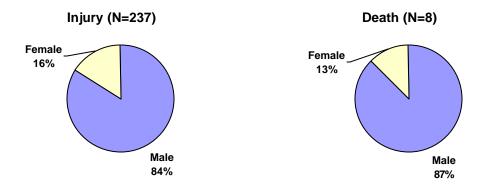
Pedalcyclists were much more likely to sustain a severe rather than a fatal injury during a pedalcycle crash. In FY 2002/03, there were 8 deaths due to pedalcycle crashes. On average, for every death resulting from a pedalcycle crash, there were 30 nonfatal injuries.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92 –2002/03

Injuries and deaths related to pedalcycle crashes were much more likely to happen to males than females. The highest age and sex-specific injury rate was in 10 to 14 year old boys (28 per 100,000).

Figure 3.31: Pedalcycle Crash Injuries and Deaths by Gender



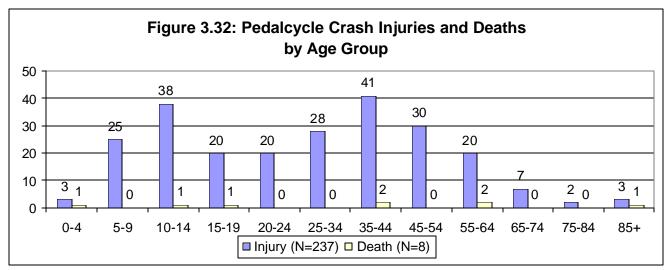
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

Table 3.4: Number and Rate* (per 100,000) of Pedalcycle Injury by Age Group and Gender

Age	Ma	ıle	Fem	ale	То	tal				
Group	Number	Rate	Number	Rate	Number	Rate				
0-4	2	*	1	*	3	*				
5-9	18	17.73	7	7.15	25	12.54				
10-14	32	28.33	6	5.66	38	17.35				
15-19	18	15.32	2	*	20	9.07				
20-24	16	11.67	4	*	20	8.26				
25-34	23	9.41	5	2.25	28	5.99				
35-44	35	15.01	6	2.65	41	8.92				
45-54	27	14.17	3	*	30	7.75				
55-64	17	14.79	3	*	20	8.36				
65-74	6	8.21	1	*	7	4.37				
75-85	2	*	0	*	2	*				
85+	3	*	0		3					
Total	199	13.33	38	2.59	237	8.00				

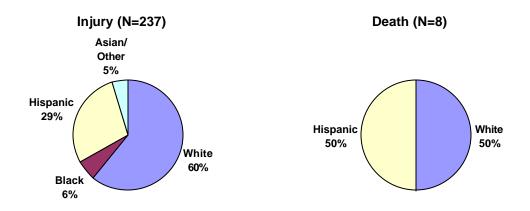
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data; FY 2002/03; Population estimates, SANDAG *Rates not calculated on fewer than five incidents

While the highest injury rates were seen in boys between 10 and 14 years of age, 5 of the 8 people who died in pedalcycle crashes (63%) were 35 years of age or older.



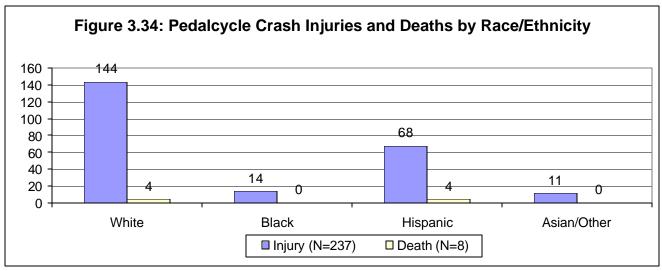
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

Figure 3.33: Pedalcycle Crash Injuries and Deaths by Race/Ethnicity

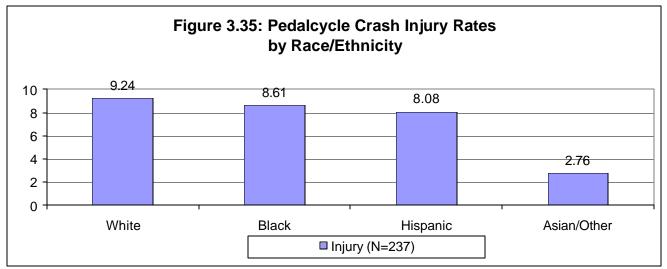


Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

Rates of pedalcycle crash injury were fairly even among White, Black, and Hispanic populations, while the rate among the Asian population was considerably lower.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

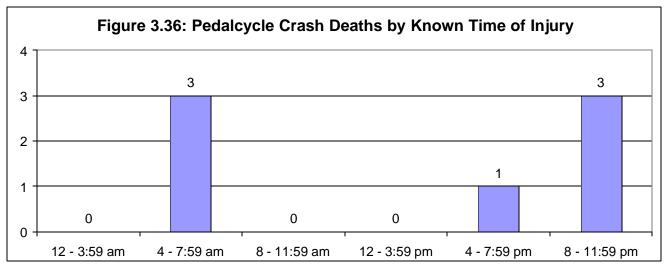


*Rates not calculated on fewer than five incidents

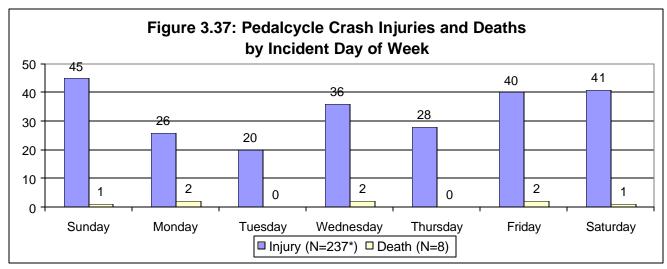
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services.

San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

Fifty-three percent of severe pedalcycle injuries happened on Fridays, Saturdays, and Sundays. The months with the greatest number of pedalcycle crash injuries were July and September.

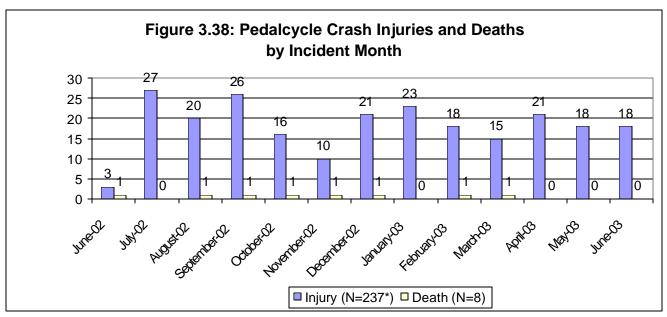


Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Medical Examiner's Data, FY 2002/03



*Totals include one injury with unspecified date of injury.

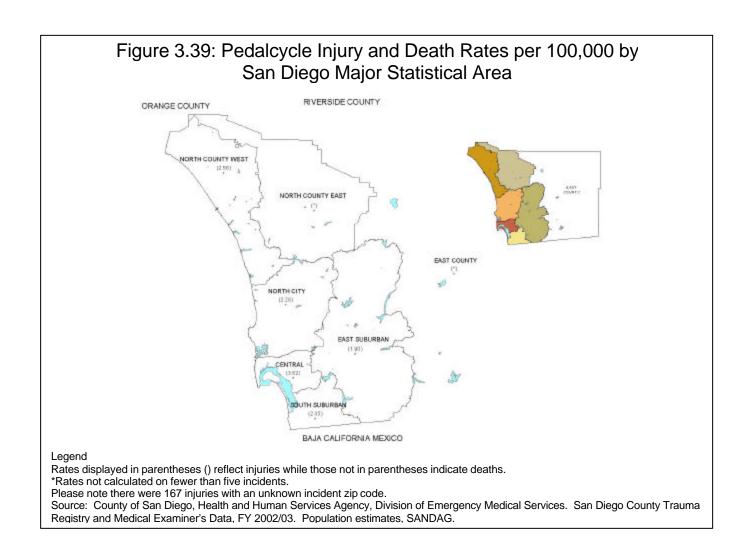
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03



*Totals include one injury with unspecified date of injury.

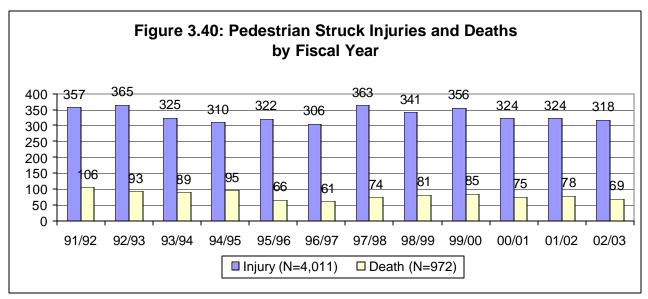
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

Incidence and rates of injury by subregional areas (SRA) and Major Statistical Areas (MSA) were calculated from the zip code where the incident took place. The incident zip code was available for 30% of non-fatal pedalcycle injuries and for 100% of deaths from pedalcycle crashes. The Central MSA had the highest rate of pedalcycle injury (3.62 per 100,000). Numbers of deaths were too low to calculate rates for any MSA. Population estimates for each of the MSAs can be found in Appendix B.



Pedestrian Injuries

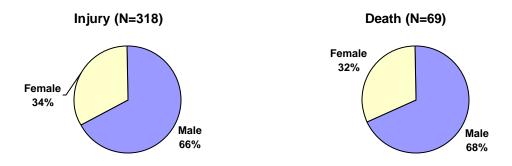
From FY 2001/02 to 2002/03 the number of injuries decreased by 2%, while deaths due to pedestrian crashes decreased by 12%. These changes were not found to be statistically significant.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92 –2002/03

As with other transportation related injuries, males had a higher rate of death and severe injury as pedestrians compared to females for nearly all age groups. Males accounted for 66% of severe injuries and 68% of deaths. Older men had the highest rates of injury (40 per 100,000 among men 85 and older).

Figure 3.41: Pedestrian Struck Injuries and Deaths by Gender

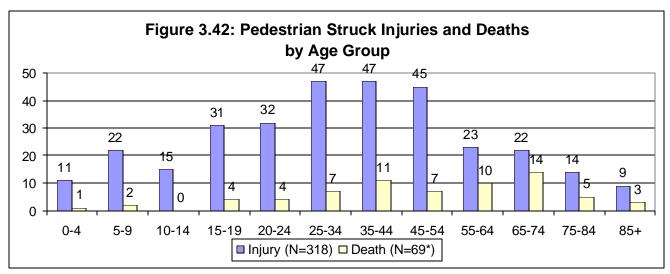


Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

Table 3.5: Number and Rate* (per 100,000) of Pedestrian Injury and Death by Age Group and Gender

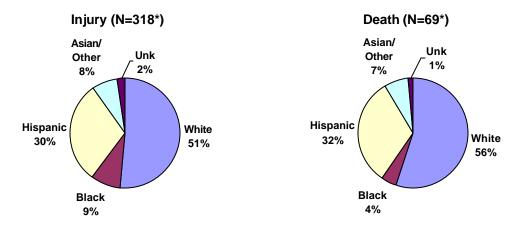
			Inju	ıry					Dea	th				
	Ma	le	Fem	ale	Tot	al	Mal	le	Fema	ale	Tota	al	Overall	Total
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
0-4	8	7.89	3	*	11	5.46	1	*	0	*	1	*	12	5.96
5-9	15	14.78	7	7.15	22	11.03	1	*	1	*	2	*	24	12.03
10-14	12	10.62	3	*	15	6.85	0	*	0	*	0	*	15	6.85
15-19	21	17.88	10	9.70	31	14.05	3	*	1	*	4	*	35	15.87
20-24	20	14.59	12	11.43	32	13.22	3	*	1	*	4	*	36	14.87
25-34	34	13.91	13	5.84	47	10.06	4	*	3	*	7	1.50	54	11.56
35-44	32	13.72	15	6.62	47	10.22	7	3.00	4	*	11	2.39	58	12.61
45-54	29	15.22	16	8.14	45	11.63	7	3.67	0	*	7	1.81	52	13.43
55-64	12	10.44	11	8.85	23	9.61	8	6.96	2	*	10	4.18	33	13.79
65-74	14	19.15	8	9.18	22	13.73	8	10.94	6	6.88	14	8.73	36	22.46
75-84	10	19.48	4	*	14	11.39	2	*	3	*	5	4.07	19	15.46
85+	6	40.02	3	*	9	21.21	2	*	1	*	3	*	12	28.28
Unknown	0		0		0		1		0		1		1	
Total	213	14.27	105	7.15	318	10.74	47	3.15	22	1.50	69	2.33	386	13.03

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data; FY 2002/03; Population estimates, SANDAG *Rates not calculated on fewer than five incidents



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03 *Totals include one death of unknown age

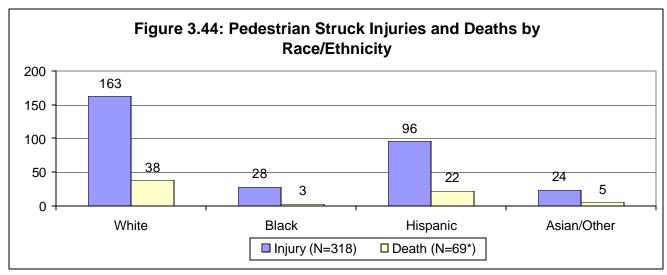
Figure 3.43: Pedestrian Struck Injuries and Deaths by Race/Ethnicity



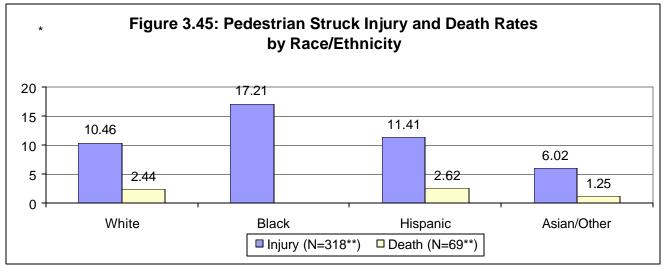
*Totals include seven injuries and one death with unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

The pedestrian injury rate was highest in the Black population (17 per 100,000), while deaths were highest among Hispanics (2.6 per 100,000).



^{*}Totals include seven injuries and one death with unspecified race/ethnicity.
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services.
San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03.



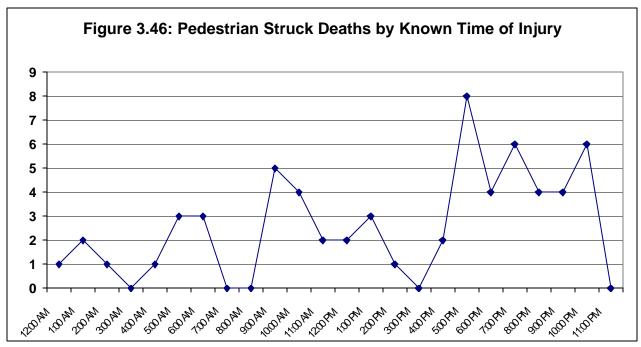
^{*}Rates not calculated on fewer than five incidents.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services.

San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03.

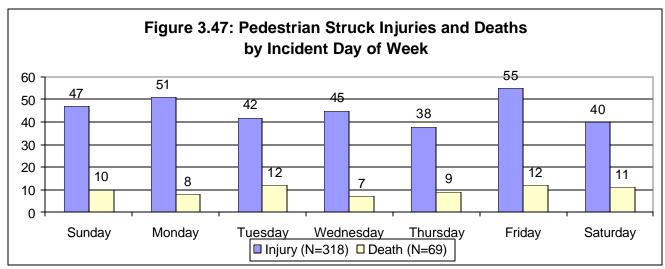
^{**}Totals include seven injuries and one death with unspecified race/ethnicity.

The number of pedestrian deaths was highest during the late afternoon and evening hours, with 52% occurring between 5 and 11 pm. Fridays experienced the most injuries and deaths, although the day-to-day variation was not significant.



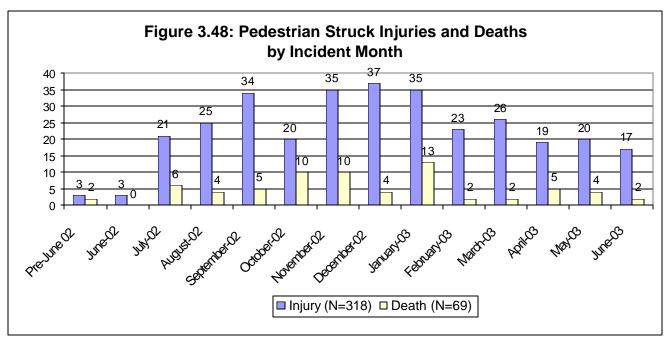
All times are in one hour increments, for example, 6:00 - 6:59 = 6:00There were seven deaths with an unidentified time of injury

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Medical Examiner's Data, FY 2002/03



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2001/02

December was the peak month for transportation related injuries, while January had the highest number of deaths.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

Incidence and rates of injury by subregional areas (SRA) and Major Statistical Areas (MSA) were calculated from the zip code where the incident took place. The incident zip code was available for 39% of non-fatal pedestrian injuries and for 96% of deaths from pedestrian crashes. The Central MSA had the highest rate of pedestrian injury, while the pedestrian death rate was highest in the East Suburban MSA. Population estimates for each of the MSAs can be found in Appendix B.

Figure 3.49: Pedestrian Injury and Death Rates per 100,000 by San Diego Major Statistical Area RIVERSIDE COUNTY ORANGE COUNTY ORTH COUNTY WEST CENTRAL SOUTH SUBLIRE BAJA CALIFORNIA MEXICO

Rates displayed in parentheses () reflect injuries while those not in parentheses indicate deaths.

Please note there were 195 injuries and three deaths with an unknown incident zip code.

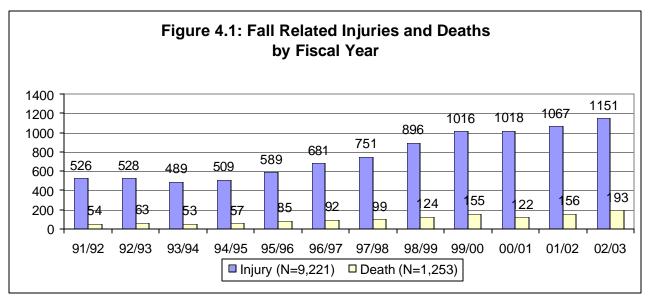
^{*}Rates not calculated on fewer than five incidents.

Other Unintentional Injuries and Deaths

During FY 2002/03, 1,693 trauma patients were injured or killed following a fall or during a sports/recreation activity. Another 315 were unintentionally injured or killed due to a variety of mechanisms that can best be classified as other. These include being struck by machinery/object, struck by falling object, and other unspecified accidents. See Technical Notes for a full listing of mechanisms included in the other category.

Fall Injuries

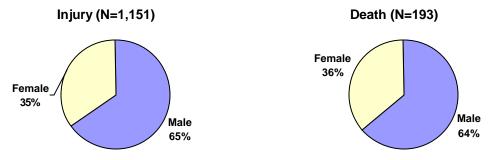
There were 1,151 injuries and 193 deaths resulting from falls in FY 2002/03. Since FY 1993/94, the number of fall injuries has more than doubled, and the number of fatalities from falls has increased more than three-fold.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92 –2002/03

Males accounted for 65% of injuries and 64% of deaths due to falls and had higher rates of both death and injury for all age groups.

Figure 4.2: Fall Related Injuries and Deaths by Gender



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 2002/03

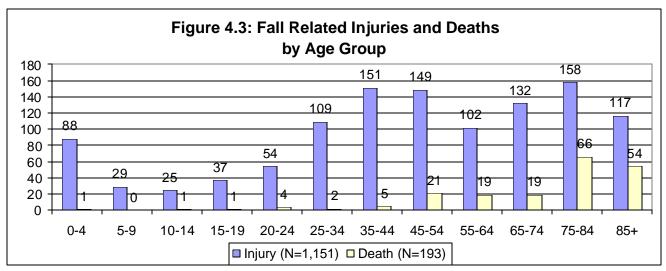
People over the age of 84 were at greatest risk of severe injury resulting from a fall, followed by 75-84 year olds and 65-74 year olds (275.71, 128.60, and 82.35 per 100,000, respectively).

Table 4.1: Number and Rate (per 100,000) of Fall Injury and Death by Age Group and Gender

			Inju	ıry					Dea	th				
	Ма	le	Fem	ale	Tot	tal	Ма	le	Fem	ale	To	tal	Overal	I Total
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
0-4	57	56.24	31	30.96	88	43.67	1	*	C	*	1	*	89	44.17
5-9	17	16.75	12	12.26	29	14.54	0	*	C	*	0	*	29	14.54
10-14	16	14.16	9	8.49	25	11.41	1	*	C	*	1	*	26	11.87
15-19	28	23.84	9	8.73	37	16.77	1	*	C	*	1	*	38	17.23
20-24	42	30.63	12	11.43	54	22.30	3	*	1	*	4	*	58	23.95
25-34	94	38.45	15	6.74	109	23.33	2	*	C	*	2	*	111	23.76
35-44	119	51.04	32	14.12	151	32.84	4	*	1	*	5	1.09	156	33.93
45-54	115	60.36	34	17.30	149	38.49	19	9.97	2	*	21	5.43	170	43.92
55-64	76	66.13	26	20.91	102	42.63	15	13.05	4	*	19	7.94	121	50.57
65-74	85	116.27	47	53.91	132	82.35	11	15.05	8	9.18	19	11.85	151	94.20
75-84	67	130.55	91	127.20	158	128.60	39	75.99	27	37.74	66	53.72	224	182.32
85+	35	233.46	82	298.79	117	275.71	27	180.10	27	98.38	54	127.25	171	402.96
Total	751	50.30	400	27.24	•	38.86	123	8.24	70	4.77	193	6.52	1,344	45.38

*Rates not calculated on fewer than five incidents.

More than one out of every four adults 65 or older who was seriously injured from a fall died from that injury. Seventy-two percent of all fall deaths were in this age group.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

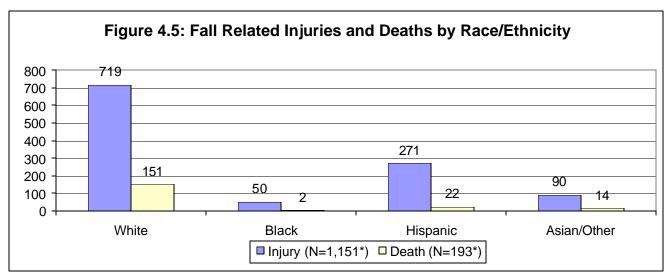
During FY 2002/03, the White population had the highest incidence and rate of injuries and deaths resulting from a fall. Sixty two percent of injuries and 79% of deaths occurred in the White population.

Death (N=193*) Injury (N=1,151*) Asian/ Other Unk Unk Hispanic 7% 2% 2% Asian/ Other 11% 7% **Black** Hispanic 1% 24% White 62% **Black** White 4% 79%

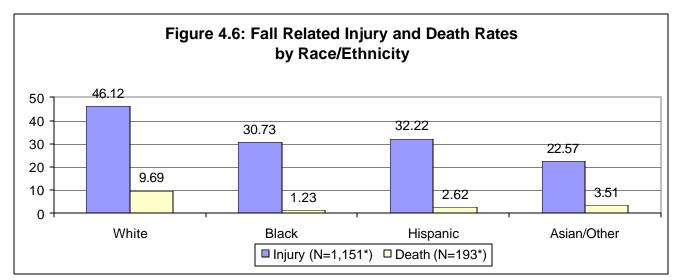
Figure 4.4: Fall Related Injuries and Deaths by Race/Ethnicity

^{*}Totals include 21 injuries and four deaths of unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 2002/03



*Totals include 21 injuries and four deaths with unspecified race/ethnicity.
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services.
San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

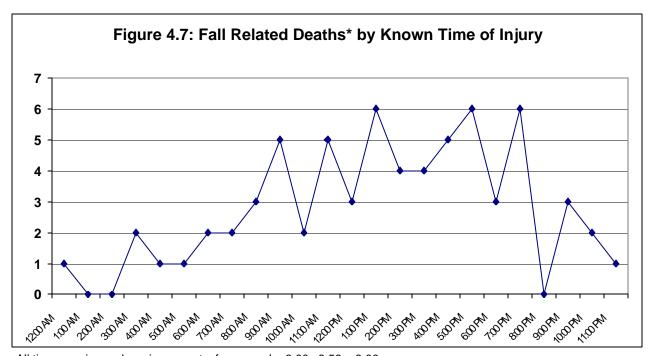


^{*}Totals include 21 injuries and four deaths with unspecified race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services.

San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

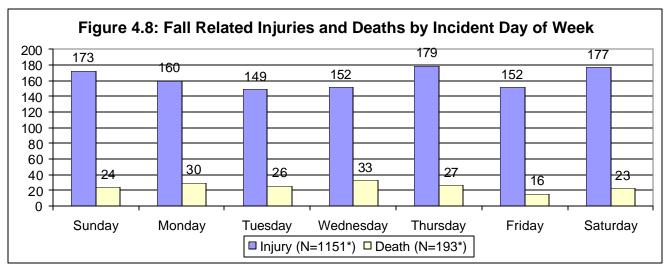
The majority of fall related deaths occurred during daytime hours. Examining the data by day of week and month showed that injuries occurred with the greatest frequency on Thursdays and during the month of August.



All times are in one hour increments, for example, 6:00 - 6:59 = 6:00

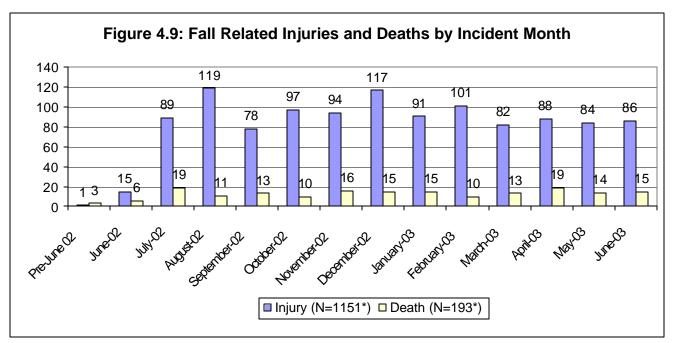
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Medical Examiner's Data, FY 2002/03

^{*}There were 126 deaths with an unidentified time of injury



*Totals include nine injuries and 14 deaths with unspecified incident dates.

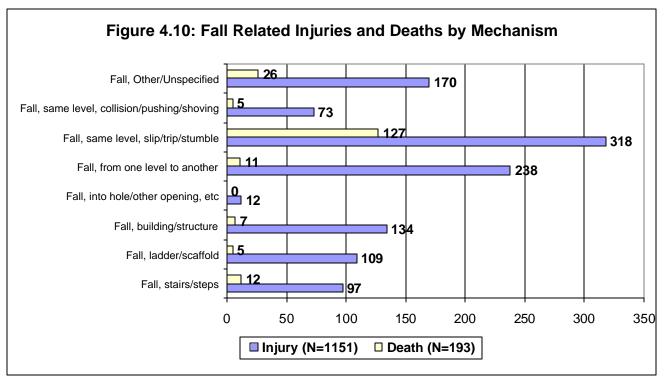
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03



*Totals include nine injuries and 14 deaths with unspecified incident dates.

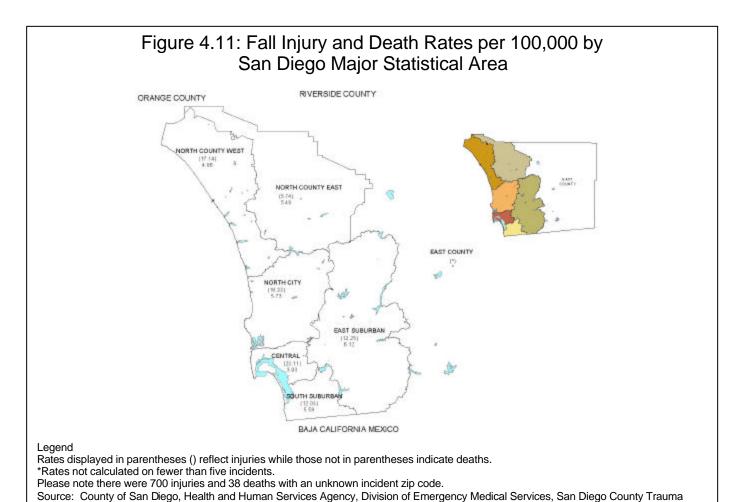
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

Twenty eight percent of fall injuries (318) and 66% of deaths (127) from falls were specified as falling from the same level. Falls from one level to another, including falls into holes, falls from structures, and falls from ladders/scaffolds or stairs/steps, comprised 51% of injuries from falls, and 18% of deaths.



Source: County of San Diego Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

Incidence and rates of injury by subregional areas (SRA) and Major Statistical Areas (MSA) were calculated from the zip code where the incident took place. The incident zip code was available for 39% of non-fatal fall injuries and for 80% of deaths from falls. The Central MSA had the highest rate of fall injury (23.11 per 100,000), and the East Suburban MSA had the highest fall death rate (6.12 per 100,000). Population estimates for each of the MSAs can be found in Appendix B.

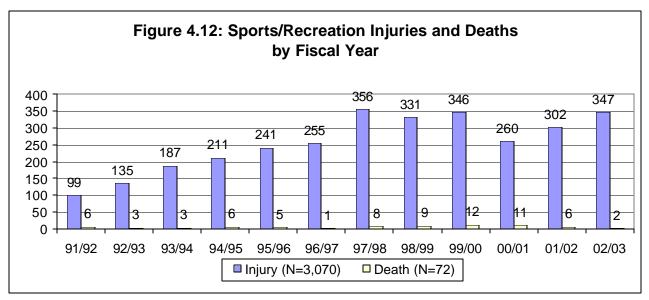


Registry and Medical Examiner's Data: FY 2002/03; Population estimates, SANDAG

Sports and Recreation Injuries

Sports and recreation injuries include: skates, roller blades, skiing, sleds, off road vehicles, riding animals, water sports, fall from playground equipment or injuries sustained while participating in sports (hit, kicked, struck). Sports and recreation did not account for a large percentage of injury deaths or years of potential life lost. Between FY 1991/92 and FY 2001/02, there was one death to every 43 severe injuries due to sports/recreation activity.

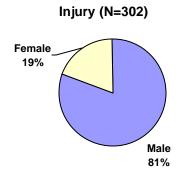
The number of injuries increased 15% from FY 2001/02 to FY 2002/03, and the number of deaths decreased from six to two. Neither of these changes was statistically significant.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego County Trauma Registry and Medical Examiner's Data, FY 1991/92 –2002/03

Eighty one percent of injuries and 83% of deaths due to sports/recreation activity were to males. More than half of the severe injuries occurred among those under the age of 20.

Figure 4.13: Sports/Recreation Injuries by Gender



Due to low numbers deaths were not included.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 2002/03

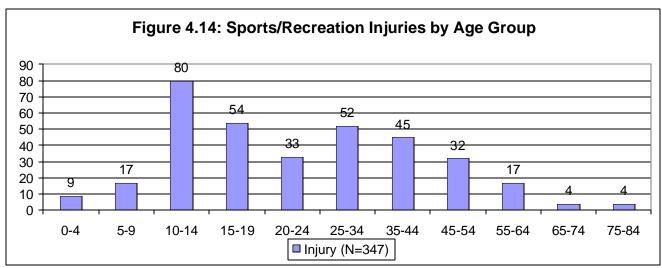
Table 4.2: Number and Rate* (per 100,000) of Sports and Recreation Injury by Age Group and Gender

			Injur	у		
	Male		Fema	le	Tota	l
	Number Rate		Number	Rate	Number	Rate
0-4	7	6.91	2	*	9	4.47
5-9	15	14.78	2	*	17	8.52
10-14	61	53.99	19	17.91	80	36.52
15-19	45	38.31	9	8.73	54	24.48
20-24	28	20.42	5	4.76	33	13.63
25-34	44	18.00	8	3.59	52	11.13
35-44	36	15.44	9	3.97	45	9.79
45-54	28	14.70	4	*	32	8.27
55-64	12	10.44	5	4.02	17	7.10
65-74	2	*	2	*	4	*
75-84	2	*	2	*	4	*
85+	0	*	0	*	0	*
Total	280	18.76	67	4.56	347	11.72

^{*}Rates not calculated on fewer than five incidents.

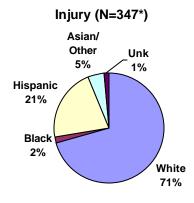
Due to low numbers deaths were not included in the table.

Sports/Recreation injuries occurred with the greatest frequency and rate in the 10 to 14 and 15 to 19 year age groups. Whites had 71% of injuries as well as the highest rate of injury due to sports and recreation activities (15.72 per 100,000).



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03 Deaths not shown due to low numbers

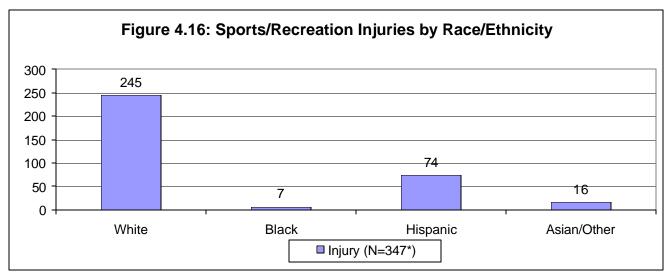
Figure 4.15: Sports/Recreation Injuries by Race/Ethnicity



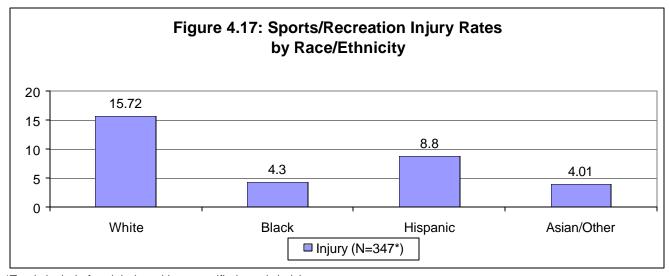
 $^{{}^*\}mathsf{Total}\;\mathsf{includes}\;\mathsf{five}\;\mathsf{injuries}\;\mathsf{with}\;\mathsf{unspecified}\;\mathsf{race/ethnicity}.$

Deaths not shown due to low numbers

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data; FY 2002/03

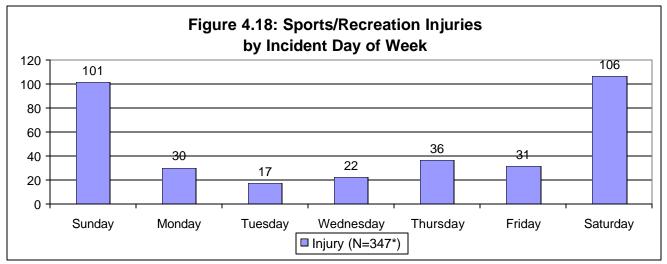


*Totals include five injuries with unspecified race/ethnicity.
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services.
San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03



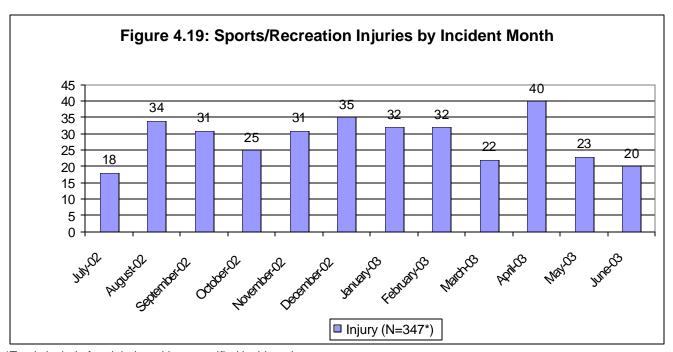
^{*}Totals include four injuries with unspecified race/ethnicity.
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services.
San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

Sixty percent of sports and recreation-related injuries occurred on weekends. By month, April had the highest number of injuries (40).



*Totals include four injuries with unspecified incident dates.

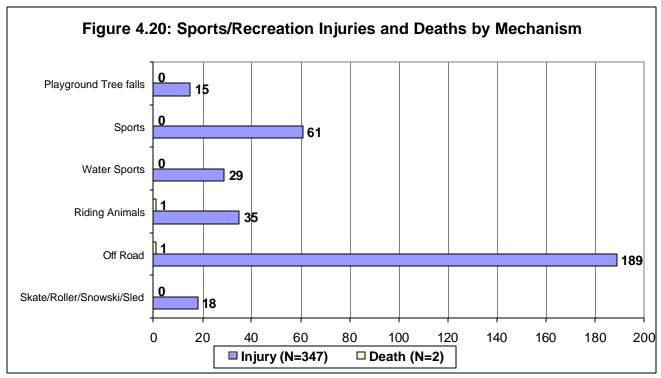
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03



^{*}Totals include four injuries with unspecified incident dates.

Source: County of san Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

The highest number of injuries was due to off-road vehicle activity, followed by sports, riding animals, and water sports.



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data, FY 2002/03

Incidence and rates of injury by subregional areas (SRA) and Major Statistical Areas (MSA) were calculated from the zip code where the incident took place. The incident zip code was available for 15% of non-fatal sports and recreation injuries. There were too few deaths to calculate rates by MSA. Injury rates were highest in the South Suburban region of San Diego (3.82 per 100,000). Population estimates for each of the MSAs can be found in Appendix B.

Figure 4.21: Sports/Recreation Injury and Death Rates per 100,000 by San Diego Major Statistical Area

ORANGE COUNTY

NORTH COUNTY BAST

ORANGE COUNTY

ORANGE COUNTY

DAJA CALIFORNIA MEXICO

Legend

Rates displayed in parentheses () reflect injuries while those not in parentheses indicate deaths.

*Rates not calculated on fewer than five incidents.

Please note there were 294 injuries with an unknown incident zip code.

Chapter 4	Other Unintentional Injuries

Detail Tables Chapter 5

Who is at Greatest Risk of Violent Injury and Death? (Rates = Number per 100,000 Population)

- **Assault:** Males aged 20 to 24 had the highest overall rates of nonfatal assault injury (97.7), with Black males in this age group having the highest rates overall (236.9).
- **Homicide:** The rate of homicide was highest among Black men age 20-24 (67.7).
- Unarmed Assault: Blacks aged 20-24 years (33.5), and 25-34 years (22.7) were at greatest risk of serious injury due to an unarmed assault.
- **Assault by Firearm:** Blacks aged 15-19 (65.0) and 20-24 (46.8) and 15-19 year old Hispanics (31.5) were most likely to be assaulted with a gun.
- **Assault by Stabbing:** Blacks 20-24 years of age (46.8) were at greatest risk of serious injury due to stabbing assault.
- **Homicide by Firearm:** Blacks aged 20-24 (40.1) had the highest firearm homicide rate.
- **Self-Inflicted Injuries:** White males 20-24 years of age (10.1) were most likely to inflict nonfatal injuries on themselves.
- **Suicide:** The traumatic suicide rate was highest for White males 85 years and older (47.7).

<u>Chapter 5</u> <u>Detail Tables</u>

Table 5.1: Assaults by Age Group, Race/Ethnicity and Gender

		Males			Females			Total	
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
Under 5									
White	41,955	2	*	39,962	3	*	81,917	5	6.10
Black	6,263	2	*	5,996	1	*	12,259	3	*
Hispanic	37,450	8	21.36	39,607	2	*	77,057	10	12.98
Asian/Other	15,682	2	*	14,578	0	-	30,260	2	*
Subtotal	101,350	16	15.79	100,143	7	6.99	201,493	23	11.41
5-9									
White	41,194	0	-	38,839	0	-	80,033	0	-
Black	6,930	1	*	6,510	0	-	13,440	1	*
Hispanic	37,823	0	-	38,075	0	-	75,898	0	-
Asian/Other	15,570	1	*	14,491	0	-	30,061	1	*
Subtotal	101,517	2	*	97,915	-	-	199,432	2	*
10-14	,			·			·		
White	44,813	0	-	42,470	2	*	87,283	2	*
Black	7,299	1	*	7,084	0	-	14,383	1	*
Hispanic	45,040	2	*	41,863	0	-	86,903	2	*
Asian/Other	15,822	0	-	14,643	1	*	30,465	1	*
Subtotal	112,974	3	*	106,060	3	*	219,034	6	2.74
15-19	,			,			,		
White	50,440	25	49.56	44,331	2	*	94,771	27	28.49
Black	7,483	13	173.73		1	*	13,839	14	101.16
Hispanic	42,686	58	135.88	36,649	5	13.64	79,335	63	79.41
Asian/Other	16,848	8	47.48	15,777	0	-	32,625	8	24.52
Subtotal	117,457	108	91.95	103,113	8	7.76	220,570	116	52.59
20-24	, -			,					
White	59,162	46	77.75	43,474	4	*	102,636	50	48.72
Black	8,863	21	236.94	6,084	3	*	14,947	24	160.57
Hispanic	51,049	58	113.62	39,187	3	*	90,236	61	67.60
Asian/Other	18,043	7	38.80	16,266	2	*	34,309	9	26.23
Subtotal	137,117	134	97.73	105,011	12	11.43	242,128	146	60.30
25-34	- ,						,		
White	111,957	60	53.59	98,108	9	9.17	210,065	69	32.85
Black	14,980	16	106.81	11,434	5	43.73	26,414	21	79.50
Hispanic	85,016	67	78.81	79,422	5	6.30	164,438	72	43.79
Asian/Other	32,525	11	33.82	33,718	3	*	66,243	14	21.13
Subtotal	244,478	158	64.63	222,682	22	9.88	467,160	180	38.53
35-44	, -			,			,		
White	130,842	52	39.74	119,363	13	10.89	250,205	65	25.98
Black	15,077	21	139.29		2	*	28,015	23	82.10
Hispanic	57,691	39	67.60		1	*	119,539	40	33.46
Asian/Other	29,549	2	*	32,503	0	-	62,052	2	*
Subtotal	233,159	118	50.61	226,652	16	7.06	459,811	134	29.14
45-54	22,130			,-3-	. •		,		
White	123,950	35	28.24	121,341	8	6.59	245,291	43	17.53
Black	9,895	9	90.96		2	*	19,183	11	57.34
Hispanic	33,390	18	53.91	38,477	1	*	71,867	19	26.44
Asian/Other	23,276	4	*	27,461	1	*	50,737	5	9.85
Subtotal	190,511	67	35.17	196,567	12	6.10	387,078	79	20.41
	oted on less the		00.17	100,007	12	0.10	557,070	13	20.71

^{*} Rate not calculated on less than five incidents.

^{**} Totals include 19 patients with unspecified age, race/ethnicity, and/or gender.

Detail Tables Chapter 5

Table 5.1: Assaults by Age Group, Race/Ethnicity and Gender (Continued)

		Males			Females			Total	
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
55-64									
White	81,283	13		- , -	1	*	164,070	14	8.53
Black	4,825	6	124.35	5,243	0	-	10,068	6	59.59
Hispanic	15,959	4	*	20,404	0	-	36,363	4	*
Asian/Other	12,863	1	*	15,922	0	-	28,785	1	*
Subtotal	114,930	25	21.75	124,356	1	*	239,286	26	10.87
65-74									
White	52,172	2	*	58,448	1	*	110,620	3	*
Black	2,890	3	*	3,229		-	6,119	3	*
Hispanic	9,886	0	-	13,513	0	-	23,399	0	-
Asian/Other	8,160	0	-	11,992	0	-	20,152	0	-
Subtotal	73,108	5	6.84	87,182	1	*	160,290	6	3.74
75-84									
White	40,330	2	*	56,177	1	*	96,507	3	*
Black	1,304	0	-	1,796	0	-	3,100	0	-
Hispanic	5,157	0		7,481	0	-	12,638	0	-
Asian/Other	4,531	0	-	6,085	0	-	10,616	0	-
Subtotal	51,322	2	*	71,539	1	*	122,861	3	*
85+									
White	12,581	0	-	23,028	0	-	35,609	0	-
Black	290	0	-	629	0	-	919	0	-
Hispanic	1,187	0	-	2,274	0	-	3,461	0	-
Asian/Other	934	0	-	1,513	0	-	2,447	0	-
Subtotal	14,992	-	-	27,444	-	-	42,436	0	-
Total**	1,492,915	638	42.74	1,468,664	83	5.65	2,961,579	721	24.35

^{*} Rate not calculated on less than five incidents.

^{**} Totals include 19 patients with unspecified age, race/ethnicity, and/or gender.

<u>Chapter 5</u> <u>Detail Tables</u>

Table 5.2: Homicides by Age Group, Race/Ethnicity and Gender

		Males			Females			Total	
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
Under 5	-			-			-		
White	41,955	1	*	39,962	1	*	81,917	2	*
Black	6,263	0	-	5,996	1	*	12,259	1	*
Hispanic	37,450	3	*	39,607	0	-	77,057	3	*
Asian/Other	15,682	0	-	14,578	0	-	30,260	0	-
Subtotal	101,350	4	*	100,143	2	*	201,493	6	2.98
5-9									
White	41,194	0	-	38,839	0	-	80,033	0	-
Black	6,930	0	-	6,510	0	-	13,440	0	-
Hispanic	37,823	0	-	38,075	0	-	75,898	0	-
Asian/Other	15,570	0	-	14,491	0	-	30,061	0	-
Subtotal	101,517	0	-	97,915	0	-	199,432	0	-
10-14									
White	44,813	1	*	42,470	0	-	87,283	1	*
Black	7,299	0	-	7,084	0	-	14,383	0	-
Hispanic	45,040	0	-	41,863	0	-	86,903	0	-
Asian/Other	15,822	0	-	14,643	0	-	30,465	0	-
Subtotal	112,974	1	*	106,060	0	-	219,034	1	*
15-19									
White	50,440	2	*	44,331	1	*	94,771	3	*
Black	7,483	3	*	6,356	0	-	13,839	3	*
Hispanic	42,686	6	14.06	36,649	0	-	79,335	6	7.56
Asian/Other	16,848	0	-	15,777	0	-	32,625	0	-
Subtotal	117,457	11	9.37	103,113	1	*	220,570	12	5.44
20-24									
White	59,162	2	*	43,474	0	-	102,636	2	*
Black	8,863	6	67.70	6,084	0	-	14,947	6	40.14
Hispanic	51,049	8	15.67	39,187	2	*	90,236	10	11.08
Asian/Other	18,043	2	*	16,266	0	-	34,309	2	*
Subtotal	137,117	18	13.13	105,011	2	*	242,128	20	8.26
25-34									
White	111,957	7	6.25	98,108	1	*	210,065	8	3.81
Black	14,980	2	*	11,434	3	*	26,414	5	18.93
Hispanic	85,016	12	14.11	79,422	1	*	164,438	13	7.91
Asian/Other	32,525	2	*	33,718	1	*	66,243	3	*
Subtotal	244,478	23	9.41	222,682	6	2.69	467,160	29	6.21
35-44									
White	130,842	5	3.82	119,363	1	*	250,205		2.40
Black	15,077	2	*	12,938	2	*	28,015		*
Hispanic	57,691	2	*	61,848	2	*	119,539	4	*
Asian/Other	29,549	1	*	32,503	0	-	62,052	1	*
Subtotal	233,159	10	4.29	226,652	5	2.21	459,811	15	3.26
45-54									
White	123,950	5	4.03	121,341	5	4.12		10	4.08
Black	9,895	0	-	9,288	2	*	19,183	2	*
Hispanic	33,390	3	*	38,477	1	*	71,867	4	*
Asian/Other	23,276	2	*	27,461	0	-	50,737	2	*
Subtotal	190,511	10	5.25	196,567	8	4.07	387,078	18	4.65

^{*} Rate not calculated on less than five incidents.

Detail Tables Chapter 5

Table 5.2: Homicides by Age Group, Race/Ethnicity and Gender (Continued)

		Males			Females			Total	
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
55-64									
White	81,283	1	*	82,787	1	*	164,070	2	*
Black	4,825	1	*	5,243	0	-	10,068	1	*
Hispanic	15,959	2	*	20,404	0	-	36,363		*
Asian/Other	12,863	0	-	15,922	0	-	28,785	0	-
Subtotal	114,930	4	*	124,356	1	*	239,286	5	2.09
65-74									
White	52,172	0	-	58,448	0	-	110,620	0	-
Black	2,890	0	-	3,229	0	-	6,119	0	-
Hispanic	9,886	1	*	13,513	0	-	23,399	1	*
Asian/Other	8,160	1	*	11,992	1	*	20,152	2	*
Subtotal	73,108	2	*	87,182	1	*	160,290	3	*
75-84									
White	40,330	1	*	56,177	1	*	96,507	2	*
Black	1,304	0	-	1,796	0	-	3,100	0	-
Hispanic	5,157	0	-	7,481	0	-	12,638	0	-
Asian/Other	4,531	0	-	6,085	0	-	10,616	0	-
Subtotal	51,322	1	*	71,539	1	*	122,861	2	*
85+									
White	12,581	0	-	23,028	0	-	35,609	0	-
Black	290	0	-	629	0	-	919	0	-
Hispanic	1,187	0	-	2,274	0	-	3,461	0	-
Asian/Other	934	0	-	1,513	0	-	2,447	0	-
Subtotal	14,992	0	-	27,444	0	-	42,436	0	-
Total**	1,492,915	84	5.63	1,468,664	27	1.84	2,961,579	111	3.75

^{*} Rate not calculated on less than five incidents.

<u>Chapter 5</u> <u>Detail Tables</u>

Table 5.3: Assaults by Age Group, Race/Ethnicity and Mechanism

		Unarn	ned	Guns	hot	Stabb	ing	Other As	ssault
	Population	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Under 5									
White	81,917	4	*	0	-	0	-	1	*
Black	12,259	3	*	0	-	0	-	0	-
Hispanic	77,057	8	10.38	0	-	2	*	0	-
Asian/Other	30,260	2	*	0	-	0	-	0	-
Subtotal	201,493	19	9.43	0	-	3	*	1	*
5-9									
White	80,033	0	-	0	-	0	-	0	-
Black	13,440	0	-	1	*	0	-	0	-
Hispanic	75,898	0	-	0	-	0	-	0	-
Asian/Other	30,061	1	*	0	-	0	-	0	-
Subtotal	199,432	1	*	1	*	0	-	0	-
10-14									
White	87,283	1	*	0	-	1	*	0	-
Black	14,383	0	-	0	-	0	-	1	*
Hispanic	86,903	0	-	2	*	0	-	0	-
Asian/Other	30,465	1	*	0	-	0	-	0	-
Subtotal	219,034	2	*	2	*	1	*	1	*
15-19									
White	94,771	9	9.50	1	*	7	7.39	10	10.55
Black	13,839	2	*	9	65.03	3	*	0	-
Hispanic	79,335	6	7.56	25	31.51	28	35.29	4	*
Asian/Other	32,625	1	*	0	-	5	15.33	2	*
Subtotal	220,570	18	8.16	36	16.32	45	20.40	17	7.71
20-24									
White	102,636	19	18.51	7	6.82	17	16.56	7	6.82
Black	14,947	5	33.45	7	46.83	7	46.83	5	33.45
Hispanic	90,236	6	6.65	15	16.62	24	26.60	16	17.73
Asian/Other	34,309	0	-	1	*	7	20.40	1	*
Subtotal	242,128	31	12.80	31	12.80	55	22.72	29	11.98
25-34									
White	210,065	22	10.47	3	*	28	13.33	16	7.62
Black	26,414	6	22.72	5	18.93	6	22.72	4	*
Hispanic	164,438	14	8.51	14	8.51	26	15.81	18	10.95
Asian/Other	66,243	5	7.55	4	*	2	*	3	*
Subtotal	467,160	48	10.27	26	5.57	64	13.70	42	8.99
35-44									
White	250,205	31	12.39	4	*	13	5.20	17	6.79
Black	28,015	5	17.85	3	*	11	39.26	4	*
Hispanic	119,539	11	9.20	5	4.18	12	10.04	12	10.04
Asian/Other	62,052	0	-	0	-	1	*	1	*
Subtotal	459,811	47	10.22	12	2.61	38	8.26	37	8.05
45-54									
White	245,291	23	9.38	1	*	9	3.67	10	4.08
Black	19,183	2	*	0	-	5	26.06	4	*
Hispanic	71,867	6	8.35	1	*	8		4	*
Asian/Other	50,737	2	*	1	*	1	*	1	*
Subtotal	387,078	33	8.53	3	*	24	6.20	19	4.91

^{*} Rate not calculated on less than five incidents.

^{**} Totals include 19 victims with unspecified age or race/ethnicity.

Detail Tables Chapter 5

Table 5.3: Assaults by Age Group, Race/Ethnicity and Mechanism (Continued)

		Unarn	ned	Guns	hot	Stabb	ing	Other As	ssault
	Population	Number	Rate	Number	Rate	Number	Rate	Number	Rate
55-64									
White	164,070	10	6.09	1	*	1	*	2	*
Black	10,068	2	*	0	-	1	*	3	*
Hispanic	36,363	1	*	0	-	1	*	2	*
Asian/Other	28,785		*	0	-	0	-	0	-
Subtotal	239,286	15	6.27	1	*	3	*	7	2.93
65-74									
White	110,620	1	*	0	-	0	-	2	*
Black	6,119			0	-	1	*	2	*
Hispanic	23,399	0		0	-	0		0	-
Asian/Other	20,152	0	-	0	-	0	-	0	-
Subtotal	160,290	1	*	0	-	1	*	4	*
75-84									
White	96,507	0	-	0	-	1	*	2	*
Black	3,100		-	0	-	0	-	0	-
Hispanic	12,638		-	0	-	0	-	0	-
Asian/Other	10,616	0	-	0	-	0	-	0	-
Subtotal	122,861	0		0	-	1	*	2	*
85+									
White	35,609	0	-	0	-	0	-	0	-
Black	919	0	-	0	-	0	-	0	-
Hispanic	3,461	0	-	0	-	0	-	0	-
Asian/Other	2,447	0	-	0	-	0	-	0	-
Subtotal	42,436	0	-	0	-	0	-	0	-
Total**	2,961,579	215	7.26	112	3.78	234	7.90	157	5.30

^{*} Rate not calculated on less than five incidents.

^{**} Totals include 19 victims with unspecified age or rac e/ethnicity.

Chapter 5 Detail Tables

Table 5.4: Homicides by Age Group, Race/Ethnicity and Mechanism

	Unarn	ned	Guns	hot	Stabbing		Other Assault	
Population	Number	Rate	Number	Rate	Number	Rate	Number	Rate
·								
81,917	2	*	0	-	0	_	0	-
12,259	1	*	0	-	0	_	0	-
77,057	2	*	0	-	1	*	0	-
	0	-	0	-	0	-	0	-
	5	2.48	0	-	1	*	0	-
,								
80,033	0	-	0	-	0	-	0	-
	0	-	0	-	0	-	0	-
	0	-	0	-	0	_	0	-
	0	-	0	-	0	_	0	-
	0	-	0	_	0	_	0	-
87,283	0	_	1	*	0	_	0	-
14,383	0	-	0	_	0	_	0	-
	0	-	0	_	0	_	0	-
30,465	0	-	0	-	0	-	0	-
	0	-	1	*	0	-	0	-
,								
94,771	0	-	3	*	0	-	0	-
		-	1	*		*		-
		-	6	7.56	0	-	0	-
	0	-	0	-	0	-	0	-
	0	-	10	4.53	2	*	0	-
,								
102,636	0	-	1	*	1	*	0	-
14,947	0	-	6	40.14	0	-	0	-
90,236	0	-	7	7.76	3	*	0	-
	0	-	2	*	0	-	0	-
242,128	0	-	16	6.61	4	*	0	-
,								
210,065	1	*	2	*	3	*	2	*
26,414	0	-	2	*	1	*		*
164,438	0	-	11	6.69	1	*	1	*
66,243	0	-	1	*	2	*	0	-
467,160	1	*	16	3.42	7	1.50	5	1.07
250,205	2	*	3	*	1	*	0	-
28,015	0	-	2	*	0	-	2	*
	0	-	3	*	1	*	0	-
62,052	0	-	0	-	0	-	1	*
459,811	2	*	8	1.74		*	3	*
245,291	1	*	5	2.04	0	-	4	*
19,183	0	-	0	-	0	-	2	*
71,867	0	-	1	*	1	*		*
50,737	0	-	1	*	0	-	1	*
387,078	1	*	7	1.81		*	9	2.33
	77,057 30,260 201,493 80,033 13,440 75,898 30,061 199,432 87,283 14,383 86,903 30,465 219,034 94,771 13,839 79,335 32,625 220,570 102,636 14,947 90,236 34,309 242,128 210,065 26,414 164,438 66,243 467,160 250,205 28,015 119,539 62,052 459,811 91,837 71,867 50,737	Population Number 81,917 2 12,259 1 77,057 2 30,260 0 201,493 5 80,033 0 13,440 0 75,898 0 30,061 0 199,432 0 87,283 0 14,383 0 86,903 0 30,465 0 219,034 0 94,771 0 13,839 0 79,335 0 32,625 0 220,570 0 102,636 0 14,947 0 90,236 0 34,309 0 242,128 0 210,065 1 26,414 0 164,438 0 66,243 0 467,160 1 250,205 2 28,015	81,917	Rate Number Num	Rate Number Rate Rate	Rate Number N	Rate Number Rate Number Rate Rat	Number Rate Number Numbe

* Rate not calculated on less than five incidents.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2002/03; Population Estimates, SANDAG.

Table 5.4: Homicides by Age Group, Race/Ethnicity and Mechanism (Continued)

		Unarn	ned	Guns	hot	Stabb	ing	Other As	ssault
	Population	Number	Rate	Number	Rate	Number	Rate	Number	Rate
55-64									
White	164,070	0	-	2	*	0	-	0	-
Black	10,068	1	*	0	-	0	-	0	-
Hispanic	36,363	0	-	0	-	1	*	1	*
Asian/Other	28,785	0	-	0	-	0		0	-
Subtotal	239,286	1	*	2	*	1	*	1	*
65-74									
White	110,620	0	-	0	-	0	-	0	-
Black	6,119	0	-	0	-	0	-	0	-
Hispanic	23,399	1	*	0	-	0	-	0	-
Asian/Other	20,152	1	*	0	-	0	-	1	*
Subtotal	160,290	2	*	0	-	0	-	1	*
75-84									
White	96,507	1	*	0	-	1	*	0	-
Black	3,100	0	-	0	-	0	-	0	-
Hispanic	12,638	0	-	0	-	0	-	0	-
Asian/Other	10,616	0	-	0	-	0	-	0	-
Subtotal	122,861	1	*	0	-	1	*	0	-
85+									
White	35,609	0	-	0	-	0	-	0	-
Black	919	0	-	0	-	0	-	0	-
Hispanic	3,461	0	-	0	-	0	-	0	-
Asian/Other	2,447	0	-	0	-	0	-	0	-
Subtotal	42,436	0	-	0	-	0	-	0	-
Total**	2,961,579	13	0.44	60	2.03	19	0.64	19	0.64

^{*} Rate not calculated on less than five incidents.

Table 5.5: Self Inflicted Injuries by Age Group, Race/Ethnicity and Gender

		Males			Females			Total	
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
Under 5	-								
White	41,955	0	-	39,962	0	-	81,917	0	-
Black	6,263	0	-	5,996	0	-	12,259	0	-
Hispanic	37,450	0	-	39,607	0	-	77,057	0	-
Asian/Other	15,682	0	-	14,578	0	-	30,260	0	-
Subtotal	101,350	0	-	100,143	1	*	201,493	1	*
5-9									
White	41,194	1	*	38,839	0	-	80,033	1	*
Black	6,930	0	-	6,510	0	-	13,440	0	-
Hispanic	37,823	0	-	38,075	0	-	75,898	0	-
Asian/Other	15,570	0	-	14,491	0	-	30,061	0	-
Subtotal	101,517	1	*	97,915	0	-	199,432	1	*
10-14	,			,					
White	44,813	0	_	42,470	0	_	87,283	0	_
Black	7,299	0	_	7,084	0	_	14,383	0	_
Hispanic	45,040	2	*	41,863	0	_	86,903	2	*
Asian/Other	15,822	0	-	14,643	0	_	30,465	0	-
Subtotal	112,974	2	*	106,060	0	_	219,034	2	*
15-19	,	_			J		2.0,00	_	
White	50,440	0	-	44,331	0	_	94,771	0	_
Black	7,483	0	-	6,356	0	_	13,839	0	_
Hispanic	42,686	3	*	36,649	0		79,335	3	*
Asian/Other	16,848	0	_	15,777	0	_	32,625	0	_
Subtotal	117,457	3	*	103,113	0	_	220,570	3	*
20-24	117,107	Ŭ		100,110	Ü		220,010	Ŭ	
White	59,162	6	10.14	43,474	1	*	102,636	7	6.82
Black	8,863	1	*	6,084	1	*	14,947	2	*
Hispanic	51,049	2	*	39,187	1	*	90,236	3	*
Asian/Other	18,043	3	*	16,266	0		34,309	3	*
Subtotal	137,117	12	8.75	105,011	3	*	242,128	15	6.20
25-34	107,117	12	0.70	100,011	J		2 12,120	10	0.20
White	111,957	6	5.36	98,108	4	*	210,065	10	4.76
Black	14,980	1	*	11,434	0	_	26,414	10	*
Hispanic	85,016	1	*	79,422	0		164,438	1	*
Asian/Other	32,525	2	*	33,718	0		66,243	2	*
Subtotal	244,478	10	4.09	222,682	4	*	467,160	14	3.00
35-44	211,170		1.00	222,002	•		101,100		0.00
White	130,842	2	*	119,363	5	4.19	250,205	7	2.80
Black	15,077	1	*	12,938	0	7.10	28,015	1	*
Hispanic	57,691	1	*	61,848	0		119,539	1	*
Asian/Other	29,549	0		32,503	0	_	62,052	0	_
Subtotal	233,159	4	*	226,652	5	2.21	459,811	9	1.96
45-54	200,100	7		220,002	3	۲،۲۱	100,011	3	1.50
White	123,950	9	7.26	121,341	2	*	245,291	11	4.48
Black	9,895	1	*	9,288	0		19,183	1	*.+0
Hispanic	33,390	1	*	38,477	0		71,867	1	*
Asian/Other	23,276	1	*	27,461	0		50,737	1	*
Subtotal	190,511	12	6.30			*	387,078	14	3.62
Subioidi	190,511	12	0.30	190,007	2		307,078	14	3.02

^{*} Rate not calculated on less than five incidents.

^{**}Totals include one injury with unspecified age, gender, and/or race/ethnicity.

Table 5.5: Self Inflicted Injuries by Age Group, Race/Ethnicity and Gender (Continued)

		Males			Females		Total			
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate	
55-64										
White	81,283	2	*	82,787	0	-	164,070	2	*	
Black	4,825	1	*	5,243	0	-	10,068	1	*	
Hispanic	15,959	0	-	20,404	0	-	36,363	0	-	
Asian/Other	12,863	0	-	15,922	0	-	28,785	0	-	
Subtotal	114,930	3	*	124,356	0	-	239,286	3	*	
65-74										
White	52,172	1	*	58,448	0	-	110,620	1	*	
Black	2,890	0	-	3,229	0	-	6,119	0	-	
Hispanic	9,886	1	*	13,513	0	-	23,399	1	*	
Asian/Other	8,160	0	-	11,992	0	-	20,152	0	-	
Subtotal	73,108	2	*	87,182	0	-	160,290	2	*	
75-84										
White	40,330	1	*	56,177	0	-	96,507	1	*	
Black	1,304	0	-	1,796	0	-	3,100	0	-	
Hispanic	5,157	1	*	7,481	0	-	12,638	1	*	
Asian/Other	4,531	0	-	6,085	0	-	10,616	0	-	
Subtotal	51,322	2	*	71,539	0	-	122,861	2	*	
85+										
White	12,581	1	*	23,028	0	-	35,609	1	*	
Black	290	0	-	629	0	-	919	0	-	
Hispanic	1,187	0	-	2,274	0	-	3,461	0	-	
Asian/Other	934	0	-	1,513	0	-	2,447	0	-	
Subtotal	14,992	1	*	27,444	0	-	42,436	1	*	
Total**	1,492,915	52	3.48	1,468,664	15	1.02	2,961,579	67	2.26	

^{*}Rate not calculated on less than five incidents.

^{**}Totals include one injury with unspecified age, gender, and/or race/ethnicity.

Table 5.6: Suicides by Age Group, Race/Ethnicity and Gender

		Males			Females			Total	
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
Under 5	-			_			_		
White	41,955	0	-	39,962	0	-	81,917	0	-
Black	6,263	0	-	5,996	0	-	12,259	0	-
Hispanic	37,450	0	-	39,607	0	-	77,057	0	-
Asian/Other	15,682	0	-	14,578	0	-	30,260	0	-
Subtotal	101,350	0	-	100,143	0	-	201,493	0	-
5-9									
White	41,194	0	-	38,839	0	-	80,033	0	-
Black	6,930	0	-	6,510	0	-	13,440	0	-
Hispanic	37,823	0	-	38,075	0	-	75,898	0	-
Asian/Other	15,570	0	-	14,491	0	-	30,061	0	-
Subtotal	101,517	0	-	97,915	0	-	199,432	0	-
10-14									
White	44,813	0	-	42,470	0	-	87,283	0	-
Black	7,299	0	-	7,084	0	-	14,383	0	-
Hispanic	45,040	0	-	41,863	0	-	86,903	0	-
Asian/Other	15,822	0	-	14,643	0	-	30,465	0	-
Subtotal	112,974	0	-	106,060	0	-	219,034	0	-
15-19				·			,		
White	50,440	4	*	44,331	1	*	94,771	5	5.28
Black	7,483	0	-	6,356	0	-	13,839	0	-
Hispanic	42,686	2	*	36,649	0	-	79,335	2	*
Asian/Other	16,848	3	*	15,777	0	-	32,625	3	*
Subtotal	117,457	10	8.51	103,113	1	*	220,570	11	4.99
20-24	,			,			,		
White	59,162	8	13.52	43,474	1	*	102,636	9	8.77
Black	8,863	1	*	6,084	0	-	14,947	1	*
Hispanic	51,049	2	*	39,187	0	-	90,236	2	*
Asian/Other	18,043	1	*	16,266	0	-	34,309	1	*
Subtotal	137,117	12	8.75	105,011	1	*	242,128	13	5.37
25-34	,			,			,		
White	111,957	14	12.50	98,108	4	*	210,065	18	8.57
Black	14,980	0	-	11,434	1	*	26,414	1	*
Hispanic	85,016	2	*	79,422	0	-	164,438	2	*
Asian/Other	32,525	2	*	33,718	0	-	66,243	2	*
Subtotal	244,478	19	7.77	222,682	5	2.25	467,160	24	5.14
35-44	,								
White	130,842	24	18.34	119,363	5	4.19	250,205	29	11.59
Black	15,077	1	*	12,938	0	-	28,015	1	*
Hispanic	57,691	4	*	61,848	0	-	119,539	4	*
Asian/Other	29,549	2	*	32,503	0	-	62,052	2	*
Subtotal	233,159	31	13.30	,	5	2.21	459,811	36	7.83
45-54									
White	123,950	26	20.98	121,341	5	4.12	245,291	31	12.64
Black	9,895	1	*	9,288	0	-	19,183	1	*
Hispanic	33,390	2	*	38,477	0	_	71,867	2	*
Asian/Other	23,276	1	*	27,461	0	-	50,737	1	*
Subtotal	190,511	30	15.75		5	2.54	387,078	35	9.04
* Rate not calcula					-				

^{*} Rate not calculated on less than five incidents. ** Totals and subtotals include two with unspecified age, gender, and/or race/ethnicity. Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services. San Diego Trauma Registry and Medical Examiner's Data, FY 2002/03. Population estimates, SANDAG

Table 5.6: Suicides by Age Group, Race/Ethnicity and Gender (Continued)

		Males			Females		Total			
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate	
55-64										
White	81,283	16	19.68	82,787	3	*	164,070	19	11.58	
Black	4,825	1	*	5,243	0	-	10,068	1	*	
Hispanic	15,959	3	*	20,404	0	-	36,363	3	*	
Asian/Other	12,863	0	-	15,922	0	-	28,785	0	-	
Subtotal	114,930	20	17.40	124,356	3	*	239,286	23	9.61	
65-74										
White	52,172	7	13.42	58,448	1	*	110,620	8	7.23	
Black	2,890	1	*	3,229	0	-	6,119	1	*	
Hispanic	9,886	1	*	13,513	0	-	23,399	1	*	
Asian/Other	8,160	0	-	11,992	0	-	20,152	0	-	
Subtotal	73,108	9	12.31	87,182	1	*	160,290	10	6.24	
75-84										
White	40,330	12	29.75	56,177	4	*	96,507	16	39.67	
Black	1,304	0	-	1,796	0	-	3,100	0	-	
Hispanic	5,157	3	*	7,481	0	-	12,638	3	*	
Asian/Other	4,531	0	-	6,085	1	*	10,616	1	*	
Subtotal	51,322	15	29.23	71,539	5	9.74	122,861	20	38.97	
85+										
White	12,581	6	47.69	23,028	0	-	35,609	6	16.85	
Black	290	0	-	629	0	-	919	0	-	
Hispanic	1,187	1	*	2,274	0	-	3,461	1	*	
Asian/Other	934	0	-	1,513	0	-	2,447	0	-	
Subtotal	14,992	7	46.69	27,444	0	-	42,436	7	16.50	
Total**	1,492,915	153	10.25	1,468,664	26	1.77	2,961,579	179	6.04	

^{*} Rate not calculated on less than five incidents.

^{**} Totals and subtotals include two with unspecified age, gender, and/or race/ethnicity.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services.

San Diego Trauma Registry and Medical Examiner's Data, FY 2002/03. Population estimates, SANDAG

Chapter 5 Detail Tables

Who is at Greatest Risk of Transportation Related Injury and Death? (Rates = Number per 100,000 Population)

- **Motor Vehicle Occupant Injury:** The highest MVO injury rates were among Black, Hispanic, and White men between 20 and 24 years of age (146.7, 123.4, and 121.7, respectively).
- **Motor Vehicle Occupant Death:** White men 85 years and older (39.7) had the highest MVO death rate, followed by Hispanic males aged 20-24 (25.5).
- **Motorcycle Crash Injury:** Motorcycle injury rates were highest among White males aged 20-24 (65.9) and 25-34 (50.9).
- **Motorcycle Crash Death:** Number was too low to calculate all age, gender, and race/ethnicity breakdowns. **No Table Appears.**
- **Pedalcycle Crash Injury:** White males aged 10-14 (37.9) and Hispanic males aged 10-14 (24.4) were at highest risk of severe injury following a pedalcycle crash.
- **Pedalcycle Crash Death:** Number was too low to calculate all age, gender, and race/ethnicity breakdowns. **No Table Appears.**
- **Pedestrian Injury:** The highest rates of pedestrian injury were among Hispanic males 35-44 years of age (39.8), followed by White males 85 years and older (39.7).
- **Pedestrian Death:** Number was too low to calculate all age, gender, and race/ethnicity breakdowns. **No Table Appears.**

Table 5.7: Motor Vehicle Occupant Injuries by Age Group, Race/Ethnicity and Gender

		Males			Females			Total	
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
Under 5	-			-			-		
White	41,955	11	26.22	39,962	4	*	81,917	15	18.31
Black	6,263	0	-	5,996	0	-	12,259	0	-
Hispanic	37,450	12	32.04	39,607	9	22.72	77,057	21	27.25
Asian/Other	15,682	2	*	14,578	2	*	30,260	4	*
Subtotal	101,350	26	25.65	100,143	15	14.98	201,493	41	20.35
5-9									
White	41,194	7	16.99	38,839	7	18.02	80,033	14	17.49
Black	6,930	0	-	6,510	1	*	13,440	1	*
Hispanic	37,823	9	23.80	38,075	12	31.52	75,898	21	27.67
Asian/Other	15,570	0	-	14,491	2	*	30,061	2	*
Subtotal	101,517	16	15.76	97,915	22	22.47	199,432	38	19.05
10-14									
White	44,813	7	15.62	42,470	8	18.84	87,283	15	17.19
Black	7,299	2	*	7,084	0	-	14,383	2	*
Hispanic	45,040	8	17.76	41,863	11	26.28	86,903	19	21.86
Asian/Other	15,822	1	*	14,643	2	*	30,465	3	*
Subtotal	112,974	18	15.93	106,060	21	19.80	219,034	39	17.81
15-19									
White	50,440	52	103.09	44,331	49	110.53	94,771	101	106.57
Black	7,483	3	*	6,356	6	94.40	13,839	9	65.03
Hispanic	42,686	48	112.45	36,649	30	81.86	79,335	78	98.32
Asian/Other	16,848	9	53.42	15,777	11	69.72	32,625	20	61.30
Subtotal	117,457	114	97.06	103,113	98	95.04	220,570	212	96.11
20-24									
White	59,162	72	121.70	43,474	45	103.51	102,636	117	114.00
Black	8,863	13	146.68	6,084	6	98.62	14,947	19	127.12
Hispanic	51,049	63	123.41	39,187	38	96.97	90,236	101	111.93
Asian/Other	18,043	14	77.59	16,266	12	73.77	34,309	26	75.78
Subtotal	137,117	162	118.15	105,011	102	97.13	242,128	264	109.03
25-34									
White	111,957	79	70.56	98,108	59	60.14	210,065	138	65.69
Black	14,980	10	66.76	11,434	6	52.48	26,414	16	60.57
Hispanic	85,016	70	82.34	79,422	39	49.10	164,438	109	66.29
Asian/Other	32,525	20	61.49	33,718	16	47.45	66,243	36	54.35
Subtotal	244,478	183	74.85	222,682	121	54.34	467,160	304	65.07
35-44									
White	130,842	69	52.74		47	39.38		116	46.36
Black	15,077	9	59.69	12,938	6	46.38	28,015	15	53.54
Hispanic	57,691	60	104.00	61,848	39	63.06	119,539	99	82.82
Asian/Other	29,549	14	47.38		13	40.00	62,052	27	43.51
Subtotal	233,159	157	67.34	226,652	106	46.77	459,811	263	57.20
45-54									
White	123,950	65	52.44		43	35.44	245,291	108	44.03
Black	9,895	6	60.64		1	*	19,183	7	36.49
Hispanic	33,390	31	92.84	38,477	27	70.17	71,867	58	80.70
Asian/Other	23,276	7	30.07	27,461	20	72.83	50,737	27	53.22
Subtotal	190,511	114	59.84	196,567	92	46.80	387,078	206	53.22

^{*} Rate not calculated on less than five incidents.

^{**} Totals and subtotals include 28 with unspecified age, gender, and/or race/ethnicity.

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Table 5.7: Motor Vehicle Occupant Injuries by Age Group, Race/Ethnicity and Gender (Continued)

		Males			Females		Total			
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate	
55-64										
White	81,283	35		,	33	39.86		68	41.45	
Black	4,825	5	103.63	5,243	0	-	10,068	5	49.66	
Hispanic	15,959	18	112.79	20,404	13	63.71	36,363	31	85.25	
Asian/Other	12,863	4	*	15,922	7	43.96	- ,	11	38.21	
Subtotal	114,930	62	53.95	124,356	53	42.62	239,286	115	48.06	
65-74										
White	52,172	28	53.67		37	63.30		65	58.76	
Black	2,890	0	-	3,229	0	-	6,119	0	-	
Hispanic	9,886	8	80.92	13,513	11	81.40	23,399	19	81.20	
Asian/Other	8,160	9	110.29	11,992	4	*	20,152	13	64.51	
Subtotal	73,108	46	62.92	87,182	52	59.65	160,290	98	61.14	
75-84										
White	40,330	23	57.03	56,177	35	86.78	96,507	58	143.81	
Black	1,304	0		1,796	2	*	3,100	2	*	
Hispanic	5,157	5	96.96	7,481	4	*	12,638	9	174.52	
Asian/Other	4,531	5	110.35	6,085	4	*	10,616	9	198.63	
Subtotal	51,322	34	66.25	71,539	45	87.68	122,861	79	153.93	
85+										
White	12,581	14	111.28	23,028	18	78.17	35,609	32	89.86	
Black	290	0	-	629	1	*	919	1	*	
Hispanic	1,187	1	*	2,274	0	-	3,461	1	*	
Asian/Other	934	1	*	1,513	1	*	2,447	2	*	
Subtotal	14,992	16	106.72	27,444	22	80.16	42,436	38	89.55	
Total**	1,492,915	949	63.57	1,468,664	749	51.00	2,961,579	1,697	57.30	

^{*} Rate not calculated on less than five incidents.

** Totals and subtotals include 28 with unspecified age, gender, and/or race/ethnicity.

Table 5.8: Motor Vehicle Occupant Deaths by Age Group, Race/Ethnicity and Gender

		Males			Females		Total		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
Under 5	-			_					
White	41,955	0	-	39,962	0	-	81,917	0	-
Black	6,263	0	-	5,996	0	-	12,259	0	-
Hispanic	37,450	5	13.35	39,607	1	*	77,057	6	7.79
Asian/Other	15,682	0	-	14,578	0	-	30,260	0	-
Subtotal	101,350	6	5.92	100,143	1	*	201,493	7	3.47
5-9									
White	41,194	0	-	38,839	0	-	80,033	0	-
Black	6,930	0	-	6,510	0	-	13,440	0	-
Hispanic	37,823	1	*	38,075	0	-	75,898	1	*
Asian/Other	15,570	0	-	14,491	0	-	30,061	0	-
Subtotal	101,517	1	*	97,915	0	-	199,432	1	*
10-14	,			,			,		
White	44,813	1	*	42,470	0	-	87,283	1	*
Black	7,299	0	-	7,084	0	-	14,383	0	-
Hispanic	45,040	0	-	41,863	0	-	86,903	0	-
Asian/Other	15,822	0	-	14,643	0	-	30,465	0	-
Subtotal	112,974	1	*	106,060	0	-	219,034	1	*
15-19	,-						-,		
White	50,440	7	13.88	44,331	6	13.53	94,771	13	13.72
Black	7,483	4	*	6,356	1	*	13,839	5	36.13
Hispanic	42,686	5	11.71	36,649	4	*	79,335	9	11.34
Asian/Other	16,848	1	*	15,777	3	*	32,625	4	*
Subtotal	117,457	17	14.47	103,113	14	13.58		31	14.05
20-24	,			,,,,,,					
White	59,162	11	18.59	43,474	5	11.50	102,636	16	15.59
Black	8,863	3	*	6,084	0	-	14,947	3	*
Hispanic	51,049	13	25.47	39,187	1	*	90,236	14	15.51
Asian/Other	18,043	2	*	16,266	1	*	34,309	3	*
Subtotal	137,117	30	21.88	105,011	7	6.67	242,128	37	15.28
25-34	.01,111					0.0.	_ :=,:=0	0.	
White	111,957	15	13.40	98,108	7	7.13	210,065	22	10.47
Black	14,980	1	*	11,434	0	-	26,414	1	*
Hispanic	85,016	15	17.64	79,422	3	*	164,438	18	10.95
Asian/Other	32,525	3	*	33,718	0		66,243	3	*
Subtotal	244,478	34	13.91	222,682	11	4.94	467,160	45	9.63
35-44	211,170	0.1	10.01	ZZZ,00Z		110 1	101,100	.0	0.00
White	130,842	12	9.17	119,363	8	6.70	250,205	20	7.99
Black	15,077	0	-	12,938	0	-	28,015	0	-
Hispanic	57,691	7	12.13	,	2	*	119,539	9	7.53
Asian/Other	29,549	3	*	32,503	0	_	62,052	3	*
Subtotal	233,159	23	9.86	226,652	10	4.41	459,811	33	7.18
45-54	_55,150	20	0.00	,	. 0		.50,011	30	7.10
White	123,950	7	5.65	121,341	5	4.12	245,291	12	4.89
Black	9,895	0	0.00	9,288	0	7.12	19,183	0	03
Hispanic	33,390	5	14.97	38,477	1	*	71,867	6	8.35
Asian/Other	23,276	1	*	27,461	2	*	50,737	3	*
Subtotal	190,511	13	6.82		8	4.07	387,078	21	5.43
Cubiolai	130,511	13	0.02	130,307	O	4.07	301,010	۷ ا	J. 4 3

^{*} Rate not calculated on less than five incidents.

 $^{^{\}star\star}$ Totals and subtotals include nine with unspecified age, gender, and/or race/ethnicity.

<u>Chapter 5</u> Detail Tables

Table 5.8: Motor Vehicle Occupant Deaths by Age Group, Race/Ethnicity and Gender (Continued)

		Males			Females		Total			
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate	
55-64										
White	81,283	4	*	82,787	5	6.04		9	5.49	
Black	4,825	0	-	5,243	0	-	10,068	0	-	
Hispanic	15,959	3	*	20,404	3	*	36,363	6	16.50	
Asian/Other	12,863	3	*	15,922	2	*	28,785	5	17.37	
Subtotal	114,930	10	8.70	124,356	10	8.04	239,286	20	8.36	
65-74										
White	52,172	3	*	58,448	3	*	110,620	6	5.42	
Black	2,890	0	-	3,229		-	6,119	0	-	
Hispanic	9,886	1	*	13,513	0	-	23,399	1	*	
Asian/Other	8,160	1	*	11,992	0	-	20,152	1	*	
Subtotal	73,108	5	6.84	87,182	4	*	160,290	9	5.61	
75-84										
White	40,330	5	12.40	56,177	4	*	96,507	9	22.32	
Black	1,304	0	-	1,796	0	-	3,100	0	-	
Hispanic	5,157	2	*	7,481	3	*	12,638	5	96.96	
Asian/Other	4,531	1	*	6,085	0	-	10,616	1	*	
Subtotal	51,322	8	15.59	71,539	7	13.64	122,861	15	29.23	
85+										
White	12,581	5	39.74	23,028	4	*	35,609	9	25.27	
Black	290	0	-	629	0	-	919	0	-	
Hispanic	1,187	1	*	2,274	0	-	3,461	1	*	
Asian/Other	934	0	-	1,513	0	-	2,447	0	-	
Subtotal	14,992	6	40.02	27,444	5	18.22	42,436	11	25.92	
Total**	1,492,915	156	10.45	1,468,664	78	5.31	2,961,579	234	7.90	

^{*} Rate not calculated on less than five incidents.

^{**} Totals and subtotals include nine with unspecified age, gender, and/or race/ethnicity.

Table 5.9: Motorcycle Injuries by Age Group, Race/Ethnicity and Gender

		Males			Females			Total	
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
Under 5									
White	41,955	2	*	39,962	0	-	81,917	2	*
Black	6,263	0	-	5,996	0	-	12,259	0	-
Hispanic	37,450	0	-	39,607	0	-	77,057	0	-
Asian/Other	15,682	0	-	14,578	0	-	30,260	0	-
Subtotal	101,350	2	*	100,143	0	-	201,493	2	*
5-9									
White	41,194	0	-	38,839	0	-	80,033	0	-
Black	6,930	0	-	6,510	0	-	13,440	0	-
Hispanic	37,823	0	-	38,075	0	-	75,898	0	-
Asian/Other	15,570	0	-	14,491	0	-	30,061	0	-
Subtotal	101,517	0	-	97,915	0	-	199,432	0	-
10-14									
White	44,813	3	*	42,470	0	-	87,283	3	*
Black	7,299	0	-	7,084	0	-	14,383	0	-
Hispanic	45,040	0	-	41,863	0	-	86,903	0	-
Asian/Other	15,822	1	*	14,643	0	-	30,465	1	*
Subtotal	112,974	4	*	106,060	0	-	219,034	4	*
15-19									
White	50,440	11	21.81	44,331	4	*	94,771	15	15.83
Black	7,483	1	*	6,356	0	-	13,839	1	*
Hispanic	42,686	3	*	36,649	0	-	79,335	3	*
Asian/Other	16,848	4	*	15,777	1	*	32,625	5	15.33
Subtotal	117,457	19	16.18	103,113	5	4.85	220,570	24	10.88
20-24									
White	59,162	39	65.92	43,474	3	*	102,636	42	40.92
Black	8,863	2	*	6,084	0	-	14,947	2	*
Hispanic	51,049	13	25.47	39,187	1	*	90,236	14	15.51
Asian/Other	18,043	2	*	16,266	0	-	34,309	2	*
Subtotal	137,117	58	42.30	105,011	4	*	242,128	62	25.61
25-34									
White	111,957	57	50.91	98,108	5	5.10	210,065	62	29.51
Black	14,980	5	33.38		0	-	26,414	5	18.93
Hispanic	85,016	16	18.82	79,422	2	*	164,438	18	10.95
Asian/Other	32,525	5	15.37	33,718	1	*	66,243	6	9.06
Subtotal	244,478	83	33.95	222,682	8	3.59	467,160	91	19.48
35-44									
White	130,842	44	33.63	119,363	10	8.38	250,205	54	21.58
Black	15,077	6	39.80	12,938	0	-	28,015	6	21.42
Hispanic	57,691	11	19.07	61,848	1	*	119,539	12	10.04
Asian/Other	29,549	1	*	32,503	0	-	62,052	1	*
Subtotal	233,159	66	28.31	226,652	11	4.85	459,811	77	16.75
45-54									
White	123,950	45	36.30	121,341	8	6.59	245,291	53	21.61
Black	9,895	0	-	9,288	0	-	19,183	0	-
Hispanic	33,390	7	20.96	38,477	0	-	71,867	7	9.74
Asian/Other	23,276	0	-	27,461	0	-	50,737	0	-
Subtotal	190,511	54	28.34	196,567	9	4.58	387,078	63	16.28

^{*} Rate not calculated on less than five incidents.

^{**} Totals and subtotals include 10 with unspecified age, gender, and/or race/ethnicity.

Table 5.9: Motorcycle Injuries by Age Group, Race/Ethnicity and Gender (Continued)

		Males			Females		Total			
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate	
55-64										
White	81,283	23	28.30	82,787	2	*	164,070	25	15.24	
Black	4,825	1	*	5,243	0	-	10,068	1	*	
Hispanic	15,959	2	*	20,404	0	-	36,363	2	*	
Asian/Other	12,863	2	*	15,922	1	*	28,785	3	*	
Subtotal	114,930	29	25.23	124,356	3	*	239,286	32	13.37	
65-74										
White	52,172	2	*	58,448	1	*	110,620	3	*	
Black	2,890	0	-	3,229	0	-	6,119	0	-	
Hispanic	9,886	0	-	13,513	0	-	23,399	0	-	
Asian/Other	8,160	0	-	11,992	0	-	20,152	0	-	
Subtotal	73,108	2	*	87,182	1	*	160,290	3	*	
75-84										
White	40,330	3	*	56,177	2	*	96,507	5	12.40	
Black	1,304	0	-	1,796	0	-	3,100	0	-	
Hispanic	5,157	0	-	7,481	1	*	12,638	1	*	
Asian/Other	4,531	0	-	6,085	0	-	10,616	0	-	
Subtotal	51,322	3	*	71,539	3	*	122,861	6	11.69	
85+										
White	12,581	0	-	23,028	2	*	35,609	2	*	
Black	290	0	-	629	0	-	919	0	-	
Hispanic	1,187	0	-	2,274	0	-	3,461	0	-	
Asian/Other	934	0	-	1,513	0	-	2,447	0	-	
Subtotal	14,992	0	-	27,444	2	*	42,436	2	*	
Total**	1,492,915	320	21.43	1,468,664	46	3.13	2,961,579	366	12.36	

^{*}Rate not calculated on less than five incidents.

^{**} Totals and subtotals include 10 with unspecified age, gender, and/or race/ethnicity.

Table 5.10: Pedalcycle Injuries by Age Group, Race/Ethnicity and Gender

		Males			Females			Total	
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
Under 5	-			-			-		
White	41,955	0	-	39,962	0	-	81,917	0	-
Black	6,263	0	-	5,996	0	-	12,259	0	-
Hispanic	37,450	2	*	39,607	0	-	77,057	2	*
Asian/Other	15,682	0	-	14,578	1	*	30,260	1	*
Subtotal	101,350	2	*	100,143	1	*	201,493	3	*
5-9	,			,					
White	41,194	9	21.85	38,839	4	*	80,033	13	16.24
Black	6,930	1	*	6,510	0	-	13,440	1	*
Hispanic	37,823	7	18.51	38,075	2	*	75,898	9	11.86
Asian/Other	15,570	1	*	14,491	1	*	30,061	2	*
Subtotal	101,517	18	17.73	97,915	7	7.15	199,432	25	12.54
10-14	,			01,010			,		
White	44,813	17	37.94	42,470	3	*	87,283	20	22.91
Black	7,299	3	*	7,084	1	*	14,383	4	*
Hispanic	45,040	11	24.42	41,863	2	*	86,903	13	14.96
Asian/Other	15,822	1	*	14,643	0	_	30,465	1	*
Subtotal	112,974	32	28.33	106,060	6	5.66		38	17.35
15-19	,				J	0.00	,,,,,		11100
White	50,440	7	13.88	44,331	2	*	94,771	9	9.50
Black	7,483	2	*	6,356	0	_	13,839	2	*
Hispanic	42,686	9	21.08	36,649	0		79,335	9	11.34
Asian/Other	16,848	0	21.00	15,777	0	_	32,625	0	11.04
Subtotal	117,457	18	15.32	103,113	2	*	220,570	20	9.07
20-24	117,407	10	10.02	100,110	2		220,010	20	3.07
White	59,162	7	11.83	43,474	2	*	102,636	9	8.77
Black	8,863	0	11.00	6,084	0		14,947	0	0.77
Hispanic	51,049	7	13.71	39,187	1	*	90,236	8	8.87
Asian/Other	18,043	2	13.71	16,266	1	*	34,309	3	*
Subtotal	137,117	16	11.67	105,011	4	*	242,128	20	8.26
25-34	137,117	10	11.07	105,011	4		242,120	20	0.20
White	111,957	11	9.83	98,108	4	*	210,065	15	7.14
Black	14,980	3	9.03	11,434	0		26,414	3	7.14
Hispanic	85,016	9	10.59	79,422	0		164,438	9	5.47
Asian/Other	32,525		10.59		1	*	· ·	1	3.47
		0	0.44	33,718	-	2.25	66,243	•	F 00
Subtotal 35-44	244,478	23	9.41	222,682	5	2.25	467,160	28	5.99
	120.042	26	10.07	110.262	4	*	250 205	20	11.00
White	130,842 15,077	26	19.87	119,363	4		250,205	30	11.99
Black	,	0	40.40	12,938	0	*	28,015	0	-
Hispanic	57,691	7	12.13	61,848	1	*	119,539	8	6.69
Asian/Other	29,549	2	15.04	32,503	1	2.65	62,052	3	0.00
Subtotal	233,159	35	15.01	226,652	6	2.65	459,811	41	8.92
45-54	400.050	40	45.00	404.044		Ψ.	045.004	00	0.07
White	123,950	19	15.33	121,341	3	^	245,291	22	8.97
Black	9,895	2	47.07	9,288	0	-	19,183	2	0.05
Hispanic	33,390	6	17.97	38,477	0	-	71,867	6	8.35
Asian/Other	23,276	0	4 4 4 7	27,461	0	-	50,737	0	7 75
Subtotal	190,511	27	14.17	196,567	3	^	387,078	30	7.75

^{*}Rate not calculated on less than five incidents.

<u>Chapter 5</u> Detail Tables

Table 5.10: Pedalcycle Injuries by Age Group, Race/Ethnicity and Gender (Continued)

		Males			Females			Total	
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
55-64									
White	81,283	15	18.45	82,787	2	*	164,070	17	10.36
Black	4,825	1	*	5,243	1	*	10,068	2	*
Hispanic	15,959	1	*	20,404	0	-	36,363	1	*
Asian/Other	12,863	0	-	15,922	0	-	28,785	0	-
Subtotal	114,930	17	14.79	124,356	3	*	239,286	20	8.36
65-74									
White	52,172	4	*	58,448	1	*	110,620	5	4.52
Black	2,890	0	-	3,229		-	6,119	0	-
Hispanic	9,886	2	*	13,513	0	-	23,399	2	*
Asian/Other	8,160	0	-	11,992	0	-	20,152	0	-
Subtotal	73,108	6	8.21	87,182	1	*	160,290	7	4.37
75-84									
White	40,330	1	*	56,177	0	-	96,507	1	*
Black	1,304	0	-	1,796	0	-	3,100	0	-
Hispanic	5,157	1	*	7,481	0	-	12,638	1	*
Asian/Other	4,531	0	-	6,085	0	-	10,616	0	-
Subtotal	51,322	2	*	71,539	0	-	122,861	2	*
85+									
White	12,581	3	*	23,028	0	-	35,609	3	*
Black	290	0	-	629	0	-	919	0	-
Hispanic	1,187	0	-	2,274	0	-	3,461	0	-
Asian/Other	934	0	-	1,513	0	-	2,447	0	-
Subtotal	14,992	3	*	27,444	0	-	42,436	3	*
Total	1,492,915	199	13.33	1,468,664	38	2.59	2,961,579	237	8.00

^{*}Rate not calculated on less than five incidents.

Table 5.11: Pedestrian Injuries by Age Group, Race/Ethnicity and Gender

		Males			Females			Total	
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
Under 5									
White	41,955	1	*	39,962	0	-	81,917	1	*
Black	6,263	0	-	5,996	0	-	12,259	0	-
Hispanic	37,450	6	16.02	39,607	2	*	77,057	8	10.38
Asian/Other	15,682	1	*	14,578	1	*	30,260	2	*
Subtotal	101,350	8	7.89	100,143	3	*	201,493	11	5.46
5-9									
White	41,194	5	12.14	38,839	1	*	80,033	6	7.50
Black	6,930	0	-	6,510	0	-	13,440	0	-
Hispanic	37,823	8	21.15	38,075	6	15.76	,	14	18.45
Asian/Other	15,570	2	*	14,491	0	-	30,061	2	*
Subtotal	101,517	15	14.78	97,915	7	7.15	199,432	22	11.03
10-14									
White	44,813	6	13.39	42,470	2	*	87,283	8	9.17
Black	7,299	0	-	7,084	1	*	14,383	1	*
Hispanic	45,040	4	*	41,863	0	-	86,903	4	*
Asian/Other	15,822	1	*	14,643	0	-	30,465	1	*
Subtotal	112,974	12	10.62	106,060	3	*	219,034	15	6.85
15-19									
White	50,440	10	19.83	44,331	6	13.53	94,771	16	16.88
Black	7,483	1	*	6,356	2	*	13,839	3	*
Hispanic	42,686	10	23.43	36,649	1	*	79,335	11	13.87
Asian/Other	16,848	0	-	15,777	1	*	32,625	1	*
Subtotal	117,457	21	17.88	103,113	10	9.70	220,570	31	14.05
20-24									
White	59,162	11	18.59	43,474	7	16.10		18	17.54
Black	8,863	1	*	6,084	3	*	14,947	4	*
Hispanic	51,049	6	11.75	39,187	1	*	90,236	7	7.76
Asian/Other	18,043	2	*	16,266	1	*	34,309	3	*
Subtotal	137,117	20	14.59	105,011	12	11.43	242,128	32	13.22
25-34									
White	111,957	22	19.65	98,108	3	*	210,065	25	11.90
Black	14,980	2	*	11,434	2	*	26,414	4	*
Hispanic	85,016	10	11.76		4	*	164,438	14	8.51
Asian/Other	32,525	0	-	33,718	3	*	66,243	3	*
Subtotal	244,478	34	13.91	222,682	13	5.84	467,160	47	10.06
35-44									
White	130,842	13	9.94	,	7	5.86	·	20	7.99
Black	15,077	6	39.80		2	*	28,015	8	28.56
Hispanic	57,691	12	20.80		3	*	119,539	15	12.55
Asian/Other	29,549	0	-	32,503	1	*	62,052	1	*
Subtotal	233,159	32	13.72	226,652	15	6.62	459,811	47	10.22
45-54									
White	123,950	18	14.52	121,341	7	5.77	245,291	25	10.19
Black	9,895	1	*	9,288	2	*	19,183	3	*
Hispanic	33,390	7	20.96	38,477	3	*	71,867	10	13.91
Asian/Other	23,276	3	*	27,461	3	*	50,737	6	11.83
* Pata not calcula	190,511	29	15.22	196,567	16	8.14	387,078	45	11.63

^{*} Rate not calculated on less than five incidents.

^{**} Totals and subtotals include seven with unspecified age, gender, and/or race/ethnicity.

Table 5.11: Pedestrian Injuries by Age Group, Race/Ethnicity and Gender (Continued)

		Males			Females			Total	
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
55-64									
White	81,283	7	8.61		6	7.25		13	7.92
Black	4,825	2	*	5,243	2	*	10,068	4	*
Hispanic	15,959	1	*	20,404	3	*	36,363	4	*
Asian/Other	12,863	1	*	15,922	0	-	28,785	1	*
Subtotal	114,930	12	10.44	124,356	11	8.85	239,286	23	9.61
65-74									
White	52,172	9	17.25	58,448	5	8.55	110,620	14	12.66
Black	2,890	1	*	3,229	0	-	6,119	1	*
Hispanic	9,886	3	*	13,513	1	*	23,399	4	*
Asian/Other	8,160	1	*	11,992	2	*	20,152	3	*
Subtotal	73,108	14	19.15	87,182	8	9.18	160,290	22	13.73
75-84									
White	40,330	7	17.36	56,177	2	*	96,507	9	22.32
Black	1,304	0	-	1,796	0	-	3,100	0	-
Hispanic	5,157	3	*	7,481	1	*	12,638	4	*
Asian/Other	4,531	0	-	6,085	1	*	10,616	1	*
Subtotal	51,322	10	19.48	71,539	4	*	122,861	14	27.28
85+									
White	12,581	5	39.74	23,028	3	*	35,609	8	22.47
Black	290	0	-	629	0	-	919	0	-
Hispanic	1,187	1	*	2,274	0	-	3,461	1	*
Asian/Other	934	0	-	1,513	0	-	2,447	0	-
Subtotal	14,992	6	40.02	27,444	3	*	42,436	9	21.21
Total**	1,492,915	213	14.27	1,468,664	105	7.15	2,961,579	318	10.74

^{*} Rate not calculated on less than five incidents.

 $^{^{\}star\star}$ Totals and subtotals include seven with unspecified age, gender, and/or race/ethnicity.

Who is at Greatest Risk of Other Unintentional Death and Injury (Rates = Number per 100,000 Population)

• **Severe Injuries due to Falls:** The highest rates of severe injuries from falls were seen in the oldest age groups. Among those 85 and over, Asian/Other women (462.7), White women (304.0), and White men (238.5) had the highest rates.

- **Deaths due to falls:** Due to the low number of deaths due to falls, rates could only be calculated for White men aged 45-54 (10.5), 55-64 (13.5), 65-74 (15.3), 75-84 (81.8), 85+ (174.9), and for White women aged 75-84 (52.1), and 85 and older (117.3). **No table appears.**
- **Severe Injury due to Sports and Recreation:** The highest rates of Sports/Recreation injury were in White males 10-14 years (73.6), and 15-19 years (59.5).
- **Death due to Sports and Recreation:** Number was too low to calculate all age, gender, and race/ethnicity breakdowns. **No Table Appears.**

Table 5.12: Fall Injuries by Age Group, Race/Ethnicity and Gender

		Males			Females			Total	
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
Under 5									
White	41,955	17	40.52	39,962	9	22.52	81,917	26	31.74
Black	6,263	5	79.83	5,996	3	*	12,259	8	65.26
Hispanic	37,450	21	56.07	39,607	12	30.30	77,057	33	42.83
Asian/Other	15,682	13	82.90	14,578	7	48.02	30,260	20	66.09
Subtotal	101,350	57	56.24	100,143	31	30.96	201,493	88	43.67
5-9									
White	41,194	5	12.14	38,839	4	*	80,033	9	11.25
Black	6,930	0	-	6,510	0	-	13,440	0	-
Hispanic	37,823	11	29.08	38,075	7	18.38	75,898	18	23.72
Asian/Other	15,570	1	*	14,491	1	*	30,061	2	*
Subtotal	101,517	17	16.75	97,915	12	12.26	199,432	29	14.54
10-14									
White	44,813	9	20.08	42,470	4	*	87,283	13	14.89
Black	7,299	1	*	7,084	1	*	14,383	2	*
Hispanic	45,040	3	*	41,863	3	*	86,903	6	6.90
Asian/Other	15,822	2	*	14,643	0	-	30,465	2	*
Subtotal	112,974	16	14.16	106,060	9	8.49	219,034	25	11.41
15-19									
White	50,440	18	35.69	44,331	6	13.53	94,771	24	25.32
Black	7,483	0	-	6,356	1	*	13,839	1	*
Hispanic	42,686	6	14.06	36,649	2	*	79,335	8	10.08
Asian/Other	16,848	1	*	15,777	0	-	32,625	1	*
Subtotal	117,457	28	23.84	103,113	9	8.73	220,570	37	16.77
20-24									
White	59,162	22	37.19	43,474	6	13.80	102,636	28	27.28
Black	8,863	1	*	6,084	0	-	14,947	1	*
Hispanic	51,049	17	33.30	39,187	5	12.76	90,236	22	24.38
Asian/Other	18,043	2	*	16,266	0	-	34,309	2	*
Subtotal	137,117	42	30.63	105,011	12	11.43	242,128	54	22.30
25-34									
White	111,957	39	34.83	98,108	3	*	210,065	42	19.99
Black	14,980	9	60.08	11,434	1	*	26,414	10	37.86
Hispanic	85,016	40	47.05	79,422	10	12.59	164,438	50	30.41
Asian/Other	32,525	5	15.37	33,718	1	*	66,243	6	9.06
Subtotal	244,478	94	38.45	222,682	15	6.74	467,160	109	23.33
35-44									
White	130,842	62	47.39	119,363	18	15.08	250,205	80	31.97
Black	15,077	4	*	12,938	1	*	28,015	5	17.85
Hispanic	57,691	44	76.27	61,848	9	14.55	119,539	53	44.34
Asian/Other	29,549	8	27.07	32,503	3	*	62,052	11	17.73
Subtotal	233,159	119	51.04	226,652	32	14.12	459,811	151	32.84
45-54									
White	123,950	70	56.47	121,341	28	23.08	245,291	98	39.95
Black	9,895	6	60.64	9,288	0	-	19,183	6	31.28
Hispanic	33,390	24	71.88	38,477	5	12.99	71,867	29	40.35
Asian/Other	23,276	10	42.96	27,461	1	*	50,737	11	21.68
Subtotal	190,511	115	60.36	196,567	34	17.30	387,078	149	38.49

^{*} Rate not calculated on less than five incidents.

^{**} Totals and subtotals include 21 with unspecified age, gender, and/or race/ethnicity.

Table 5.12: Fall Injuries by Age Group, Race/Ethnicity and Gender (Continued)

		Males			Females			Total	
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
55-64									
White	81,283	53		,	21	25.37	164,070	74	45.10
Black	4,825	7	145.08	5,243	0	-	10,068	7	69.53
Hispanic	15,959	11	68.93	,	2	*	36,363	13	
Asian/Other	12,863	5	38.87	,	2	*	28,785	7	24.32
Subtotal	114,930	76	66.13	124,356	26	20.91	239,286	102	42.63
65-74									
White	52,172	61	116.92			53.04	,	92	83.17
Black	2,890	4	*	3,229		*	6,119	6	98.06
Hispanic	9,886	11	111.27	13,513	8	59.20	23,399	19	81.20
Asian/Other	8,160	8	98.04	,	6	50.03	20,152	14	69.47
Subtotal	73,108	85	116.27	87,182	47	53.91	160,290	132	82.35
75-84									
White	40,330	54	133.90	56,177	79	195.88	96,507	133	329.78
Black	1,304	1	*	1,796	0	-	3,100	1	*
Hispanic	5,157	8	155.13	7,481	7	135.74	12,638	15	290.87
Asian/Other	4,531	2	*	6,085	4	*	10,616	6	132.42
Subtotal	51,322	67	130.55	71,539	91	177.31	122,861	158	307.86
85+									
White	12,581	30	238.45	23,028	70	303.98	35,609	100	280.83
Black	290	1	*	629	2	*	919	3	*
Hispanic	1,187	3	*	2,274	2	*	3,461	5	144.47
Asian/Other	934	1	*	1,513	7	462.66	2,447	8	326.93
Subtotal	14,992	35	233.46	27,444	82	298.79	42,436	117	275.71
Total**	1,492,915	751	50.30	1,468,664	400	27.24	2,961,579	1,151	38.86

^{*} Rate not calculated on less than five incidents.

^{**} Totals and subtotals include 21 with unspecified age, gender, and/or race/ethnicity.

Table 5.13: Sports/Recreation Injuries by Age Group, Race/Ethnicity and Gender

		Males			Females			Total	
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
Under 5							-		
White	41,955	2	*	39,962	0	-	81,917	2	*
Black	6,263	0	-	5,996	0	-	12,259	0	-
Hispanic	37,450	4	*	39,607	1	*	77,057	5	6.49
Asian/Other	15,682	1	*	14,578	1	*	30,260	2	*
Subtotal	101,350	7	6.91	100,143	2	*	201,493	9	4.47
5-9				·					
White	41,194	9	21.85	38,839	2	*	80,033	11	13.74
Black	6,930	0	-	6,510	0	-	13,440	0	-
Hispanic	37,823	5	13.22	38,075	0	-	75,898	5	6.59
Asian/Other	15,570	1	*	14,491	0	-	30,061	1	*
Subtotal	101,517	15	14.78	97,915	2	*	199,432	17	8.52
10-14	101,011			01,010			,		
White	44,813	33	73.64	42,470	14	32.96	87,283	47	53.85
Black	7,299	3	*	7,084	0	-	14,383	3	*
Hispanic	45,040	23	51.07	41,863	4	*	86,903	27	31.07
Asian/Other	15,822	1	*	14,643	0	-	30,465	1	*
Subtotal	112,974	61	53.99	106,060	19	17.91	219,034	80	36.52
15-19	,,,,,						_;,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
White	50,440	30	59.48	44,331	6	13.53	94,771	36	37.99
Black	7,483	1	*	6,356	0	-	13,839	1	*
Hispanic	42,686	10	23.43	36,649	2	*	79,335	12	15.13
Asian/Other	16,848	3	*	15,777	1	*	32,625	4	*
Subtotal	117,457	45	38.31	103,113	9	8.73		54	24.48
20-24	111,101	.0	00.01	100,110	Ü	0.10	220,010	0.1	21110
White	59,162	19	32.12	43,474	4	*	102,636	23	22.41
Black	8,863	1	*	6,084	1	*	14,947	2	*
Hispanic	51,049	7	13.71	39,187	0		90,236	7	7.76
Asian/Other	18,043	1	*	16,266	0	_	34,309	1	*
Subtotal	137,117	28	20.42	105,011	5	4.76		33	13.63
25-34	107,117	20	20.12	100,011	Ü	1110	212,120	00	10.00
White	111,957	35	31.26	98,108	5	5.10	210,065	40	19.04
Black	14,980	1	*	11,434	0	-	26,414	1	*
Hispanic	85,016	7	8.23	79,422	3	*	164,438	10	6.08
Asian/Other	32,525	1	*	33,718	0		66,243	1	*
Subtotal	244,478	44	18.00	222,682	8	3.59	467,160	52	11.13
35-44	211,170		10.00	222,002	J	0.00	107,100	02	11.10
White	130,842	29	22.16	119,363	8	6.70	250,205	37	14.79
Black	15,077	0	-	12,938	0	-	28,015	0	
Hispanic	57,691	4	*	61,848	1	*	119,539	5	4.18
Asian/Other	29,549	2	*	32,503	0	_	62,052	2	*
Subtotal	233,159	36	15.44	226,652	9	3.97	459,811	45	9.79
45-54	200,:00				J	0.0.	.00,011	.0	00
White	123,950	22	17.75	121,341	4	*	245,291	26	10.60
Black	9,895	0	- 17.70	9,288	0		19,183	0	10.00
Hispanic	33,390	2	*	38,477	0		71,867	2	*
Asian/Other	23,276	3	*	27,461	0		50,737	3	*
Subtotal	190,511	28	14.70		4	*	387,078	32	8.27
	oted on less tha		14.70	130,307	4		301,010	52	0.27

^{*} Rate not calculated on less than five incidents.

^{**} Totals and subtotals include five with unspecified age, gender, and/or race/ethnicity.

Table 5.13: Sports/Recreation Injuries by Age Group, Race/Ethnicity and Gender (Continued)

		Males			Females		* 110,620 - 6,119 - 23,399 - 20,152 * 160,290 * 96,507 - 3,100 - 12,638 - 10,616 * 122,861		
	Population	Number	Rate	Population	Number	Rate	Population	Number	Rate
55-64									
White	81,283	11	13.53	82,787	5	6.04		16	9.75
Black	4,825	0	-	5,243	0	-		0	-
Hispanic	15,959	1	*	20,404	0	-	36,363	1	*
Asian/Other	12,863	0	-	15,922	0	-	,	0	-
Subtotal	114,930	12	10.44	124,356	5	4.02	239,286	17	7.10
65-74									
White	52,172	1	*	58,448	2	*		3	*
Black	2,890	0	-	3,229	0	-		0	-
Hispanic	9,886	0	-	13,513	0	-		0	-
Asian/Other	8,160	1	*	11,992	0	-	20,152	1	*
Subtotal	73,108	2	*	87,182	2	*	160,290	4	*
75-84									
White	40,330	2	*	56,177	2	*	96,507	4	*
Black	1,304	0	-	1,796	0	-	3,100	0	-
Hispanic	5,157	0	-	7,481	0	-	12,638	0	-
Asian/Other	4,531	0	-	6,085	0	-	10,616	0	-
Subtotal	51,322	2	*	71,539	2	*	122,861	4	*
85+									
White	12,581	0	-	23,028	0	-	35,609	0	-
Black	290	0	-	629	0	-	919	0	-
Hispanic	1,187	0	-	2,274	0	-	3,461	0	-
Asian/Other	934	0	-	1,513	0	-	2,447	0	-
Subtotal	14,992	0	-	27,444	0	-	42,436	0	-
Total**	1,492,915	280	18.76	1,468,664	67	4.56	2,961,579	347	11.72

^{*} Rate not calculated on less than five incidents.

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego Trauma Registry and Medical Examiner's Data, FY 2002/03; Population Estimates, SANDAG

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 $^{^{\}star\star}$ Totals and subtotals include five with unspecified age, gender, and/or race/ethnicity.

Abbreviated Injury Scale (AIS): A scale created to describe individual traumatic injuries. AIS scores obtain a value from each of 6 body areas: 1) head or neck; 2) face; 3) chest; 4) abdomen/pelvic contents; 5) extremities/pelvic girdle; and 6) external. For each body region a severity code is assigned which describes the injuries: 1) minor; 2) moderate; 3) serious; 4) severe; 5) critical;6) maximum injury with little chance of survival, and 9) unknown.

Confidence Level (95%): Statistical measure used when comparing the differences between a set of numbers to determine if they are statistically significant or not. A 95% confidence level was used in this report (p < .05), therefore you could say that there was less than a five percent chance that the differences were due to chance if they were reported as statistically significant.

Geographic Areas: The geographic areas used in the analysis of the data are the Major Statistical Areas (MSA) and the subregional areas (SRA) of San Diego County as defined by the San Diego Association of Governments (SANDAG). See Appendix D.

Mechanism of Injury: This report is based on classifications of injury etiology as follows:

Motor Vehicle Occupant driver or passenger, not motorcycle

Motorcycle driver or passenger of motorcycle/moped

Pedalcycle pedalcyclist, traffic or non-traffic

Pedestrian person involved in a motor vehicle collision who was

on foot, or in or operating a pedestrian conveyance, e.g., baby carriage, roller skates, wheelchair, scooter,

skateboard.

Other vehicle railway accident

motor vehicle other or unknown

other road vehicle

aircraft

other vehicle

Falls fall, steps

fall, ladder/scaffold

fall, structure

fall, into hole/swimming pool, etc.

fall, cliff

fall from standing (must be witnessed)

other fall/unknown

Self Inflicted/Suicides suicide attempt (hanging, suffocation)

self inflicted firearms/ explosive self inflicted cutting/piercing self inflicted jump from high place self inflicted suicide attempt, other

Assaults/Homicides fall, pushed from vehicle

assault, unarmed fight, brawl, etc.

rape

assault by firearm/explosive assault by cutting/piercing

child battering

other assault/suspected non-accidental

assault by multiple causes (firearms/stabbing/etc.)

Sports & Recreation Activities scooter/skateboard/carriage/snow skier

off road vehicle riding animals water sports

sports (hit, kicked or struck)

fall from tree/playground equipment

Other dog bite

injured by animal, not dog bite

struck by falling object

struck by machinery/object (caught, crushed, cut, etc.)

cutting instruments (lawn mowers, power tools,

appliances, knives, swords, saws, glass)

explosion of pressure vessel

BB/pellet gun (assault and accidental) bow/cross bow (assault and accidental)

firearms (accident, not assault)

explosive material (fireworks, gas, bomb, accident)

hot substance, caustic, steam

electric current

cave in (dirt, structures) other unspecified accident

legal intervention

Unknown mechanism left blank or "unknown".

undetermined intent of injury

Incidence: The number of occurrences for the specific injury type. Incidence should not be used to compare different racial/ethnic groups, age groups or geographic areas. For these comparisons, use rates which take into account differences in population sizes.

Injury: For the purposes of this report injury refers to unintentional or intentional damage to the body resulting from acute exposure to mechanical energy.

Injury Severity Score (ISS): A modification of the AIS, the ISS is an anatomic score developed to identify multiple traumatic injuries. The ISS is obtained by calculating the sum of the squared values of the highest AIS code in each of the three most severely injured regions of the body. AIS scores up to 5 are squared, so that the highest ISS attainable is 75. An AIS score of 6 in any body region is assigned as ISS of 75.

Race/Ethnicity: Race/ethnicity is calculated for this report as Hispanic, non-Hispanic White, non-Hispanic Black, non-Hispanic Asian/Other based on SANDAG estimates of population for January 2001.

Rate: Calculated as incidence per 100,000 population. Rates were calculated using January 2001 population estimates provided by the San Diego Association of Governments (SANDAG). Rates were not calculated for categories with less than five occurrences, due to instability.

Rate = (Incidence/Population) X 100,000

SANDAG: San Diego Association of Governments.

Scene Time: The total time the patient was not actually being transported to either the receiving hospital or the rendezvous point (reflects the total time an ambulance spends on scene).

Source of Data: All incidence data is from the San Diego County Trauma Registry. This data includes both deaths and severe traumatic injuries. To be included in the trauma registry a patient must suffer from a traumatic injury and: have a length of stay in the hospital greater than or equal to 24 hours; be an interfacility transfer from or to an acute care facility; or die from the injury. A patient who dies of a traumatic injury on scene, at a non-trauma facility, or at a trauma center is included in the Medical Examiner's database.

Statistical Significance: A number is said to be statistically significant if it is "significantly" larger or smaller than would be expected by chance. For this report statistical significance is measured using a 95% confidence level, meaning that with 95% certainty you can say that the numbers did not occur by chance, giving us a statistical significance of p < .05.

Trauma Center Monthly Reports: Summary reports submitted to EMS by each designated trauma center hospital. These forms are intended to serve as a record of the hospital's trauma service activity for that month. This activity includes admissions, discharges, deaths, mode of arrival and final dispositions.

Years Potential Life Lost (YPLL): YPLL calculates the years of life lost due to a death using the average life expectancy as an estimate for the total length of life. Life expectancy was derived from the Vital Statistics Life Tables (Centers for Disease Control and Prevention). For age groups, YPLL was calculated using the life expectancy for the median age for the group. YPLL = (Expected years of life - median age) X Number of deaths

Technical Notes			

Table A.1: Leading Causes of Death and Severe Injury by San Diego MSA

MSA	Rank	Death	Rank	Severe Injury
Central	1	Suicide	1	Assaults
	2	Homicide	2	Fall
	3	Fall	3	MV Occupant
North City	1	Suicide	1	Fall
	2*	Fall;	2	MV Occupant
		MV Occupant	3	Pedestrian
South Suburban	1	Fall	1	MV Occupant
	2	Homicide	2	Fall
	3*	MV Occupant	3	Assault
East Suburban	1	MV Occupant	1	Fall
	2	Suicide	2	MV Occupant
	3	Fall	3	Motorcycle
North County West	1	MV Occupant	1	MV Occupant
	2	Suicide	2	Fall
	3	Fall	3	Assault
North County East	1	MV Occupant	1	Fall
		Fall		MV Occupant
	3	Suicide	3*	Pedestrian; Pedalcycle; Other Vehicle
East County	1	MV Occupant	1	MV Occupant
	2	Motorcycle	2	Other Vehicle
until of Con Diago, Haalth		Suicide		Motorcycle

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data: FY 2002/03

^{*} Indicates a tie

Table A.2: Leading Causes of Death and Severe Injury by Age Group

Age Group in Years	Rank	Death	Rank	Severe Injury
0-4	1	MV Occupant	1	Falls
		Homicide	2	MV Occupant
	3*	Pedestrian; Pedalcycle;	3	Assaults
		Other Vehicle		
5-9	1	Pedestrian		MV Occupant
	2	MV Occupant	2	Falls
				Pedalcycle
10-14		Pedalcycle; Falls;	1	Sport/Rec
		MV Occupant;		MV Occupant
		Homicide	3	Pedalcycle
15-19	1	MV Occupant	1	MV Occupant
	2	Homicide	2	Assaults
	3	Suicide	3	Sport/Rec
20-24	1	MV Occupant	1	MV Occupant
	2	Homicide	2	Assault
	3	Suicide	3	Motorcycle
25-34	1	MV Occupant	1	MV Occupant
	2	Homicide	2	Assault
	3	Suicide	3	Falls
35-44	1	Suicide	1	MV Occupant
	2	MV Occupant	2	Falls
	3	Homicide	3	Assaults
45-54	1	Suicide	1	MV Occupant
	2*	MV Occupant; Falls	2	Falls
			3	Assaults
55-64	1	Suicide	1	MV Occupant
	2	MV Occupant	2	Falls
	3	Falls	3	Motorcycle
65-74	1	Falls	1	Falls
	2	Pedestrian	2	MV Occupant
	3	Suicide		Pedestrian
75-84	1	Falls	1	Falls
		Suicide	2	MV Occupant
		MV Occupant	3	Pedestrian
35+	1	Falls	1	Falls
		MV Occupant		MV Occupant
		Suicide		Pedestrian

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, San Diego County Trauma Registry and Medical Examiner's Data: FY 2002/03

^{*} Indicates a tie.

Table B.1: Transportation Related Injuries and Deaths by Mechanism and San Diego County Subregional Area

		li biego couli	MV Occup		Motor	cvcle	Pedal	cvcle
MSA	SRA	Population	Injury	Death		Death	Injury	Death
CENTRAL	CentralSanDiego	158,357	41	6	8	4	10	С
	Peninsula	62,255	4	2	0	0	1	C
	Coronado	26,353	4	0	3	1	0	C
	NationalCity	59,360	27	2	3	3	3	C
	SoutheastSanDiego	158,655	19			1	2	C
	Mid-City	171,193	42	4	3	2	7	1
	TOTAL	636,173	137	22	19	11	23	1
NORTH	KearnyMesa	149,048	25	22	7	4	3	1
CITY	Coastal	77,201	21	3	5	0	7	C
	University	52,848	4	4	4	1	2	C
	DelMar-MiraMesa	148,746	20	3	4	0	0	C
	NorthSanDiego	87,611	2	2	3	0	2	C
	Poway	87,185	3	3	0	0	1	C
	Miramar	6,571	0	0	0	0	0	C
	Elliott-Navajo	88,731	6	3	0	1	1	C
	TOTAL	697,941	81	40	23	6	16	1
SOUTH	Sweetwater	99,712	10	2	3	0	2	C
SUBURBAN	ChulaVista	109,789	29	8	6	0	4	1
	SouthBay	131,239	15	2	8	0	2	C
	TOTAL	340,740	54	12	17	0	8	1
EAST	Jamul	13,269	4	5	6	3	0	1
SUBURBAN	SpringValley	80,250	13	3	3	0	5	C
	LemonGrove	29,799	11	0	7	0	1	1
	LaMesa	57,639	8	1	0	1	0	C
	ElCajon	121,383	7	5	2	0	1	1
	Santee	52,151	1	0	1	0	1	C
	Lakeside	55,342	2	6	1	1	1	C
	HarbisonCrest	14,981	2	4	0	0	0	C
	Alpine	14,574	6	9	2	1	0	C
	Ramona	34,239	2			0	0	C
	TOTAL	473,627	56	36	22	6	9	3
NORTH	SanDieguito	88,392	18	4	3	1	5	C
COUNTY	Carlsbad	104,852	21			1	2	C
WEST	Oceanside	160,032	52	20	8	1	3	C
	Pendleton	37,659	16			0	0	C
	TOTAL	390,935	107	34		3		0
NORTH	Escondido	151,512	2		1	3	0	2
COUNTY	SanMarcos	76,741	2	5	0	1	0	C
EAST	Vista	99,030	2		2	0	3	C
	ValleyCenter	20,080	0			0	0	C
	Pauma	7,292	0	3	0	0	0	C
	Fallbrook	46,022	2		0	2	1	C
	TOTAL	400,677	8	47	3	6	4	2
EAST	Palomar-Julian	6,360	0	3	0	2	0	C
COUNTY	Laguna-PineValley	5,314	0			0	0	C
	MountainEmpire	6,548	5	11	1	4	0	C
	Anza-BorregoSprings	3,264	1	_		0	0	C
	TOTAL	21,486	6			6	0	0
OTHER/UNK	NOWN		1249	20	264	1	167	C
TOTAL		2,961,579	1,698			39		8
		Human Services Divi						

Table B.1: Transportation Related Injuries and Deaths by Mechanism and San Diego County Subregional Area (Continued)

	SRA	,	•	strian		Vehicle	Overall
MSA		Population	Injury	Death	Injury	Death	Total
CENTRAL	CentralSanDiego	158,357	18	6			104
CENTRAL	Peninsula	62,255	3	2			
	Coronado	26,353	0	0		0	
	NationalCity	59,360	2	3		0	
	SoutheastSanDiego	158,655	11	0		0	
	Mid-City	171,193	24	5		1	93
	TOTAL	636,173		16			
NORTH CITY	KearnyMesa	149,048		5			
NORTH CITT	Coastal	77,201	11	2			55
	University	52,848	4	0		0	
	DelMar-MiraMesa	148,746		2			
	NorthSanDiego	87,611	0	2			
	Poway	87,185	0	1	0		
	Miramar	6,571	1	0	_		
	Elliott-Navajo	88,731	0	2			
	TOTAL	697,941	26	14			
SOUTH SUBURBAN	Sweetwater	99,712	1	0		0	
	ChulaVista	109,789	0	2		0	
	SouthBay	131,239	6	8		0	
	TOTAL	340,740		10			
EAST SUBURBAN	Jamul	13,269	0	0		_	
	SpringValley	80,250	10	1	0		
	LemonGrove	29,799	0	1	0		
	LaMesa	57,639	4	0	0		
	ElCajon	121,383	0	7	1	0	
	Santee	52,151	0	0	0		
	Lakeside	55,342	0	2			
	HarbisonCrest	14,981	0	2			
	Alpine	14,574	0	0			
	Ramona	34,239	0	2	0		
	TOTAL	473,627	14	15			
NORTH COUNTY	SanDieguito	88,392	2	2		1	45
WEST	Carlsbad	104,852	1	1	2	3	
	Oceanside	160,032	10	3	10		
	Pendleton	37,659	1	0			
	TOTAL	390,935	14	6		4	
NORTH COUNTY EAST	Escondido	151,512	3	2		0	
	SanMarcos	76,741	1			0	
	Vista	99,030		0			20
	ValleyCenter	20,080		0		1	2
	Pauma	7,292		0	0	0	
	Fallbrook	46,022		0	0		17
	TOTAL	400,677		4	4	3	
EAST COUNTY	Palomar-Julian	6,360		0	0		
	Laguna-PineValley	5,314	0	1	2		
	MountainEmpire	6,548		0			
	Anza-BorregoSprings	3,264	0	0		1	13
	TOTAL	21,486		1	4		45
OTHER/UNKNOWN		2.,100	195		•	-	
		2 064 F70		69			
TOTAL		2,961,579					3,243

Table C.1: San Diego County Population Breakdown by Age Group, Gender and Race/Ethnicity January 1, 2003

		Males	Females	Total
Under 5	White	41,955	39,962	81,917
	Black	6,263	5,996	12,259
	Hispanic	37,450	39,607	77,057
	Asian/Other	15,682	14,578	30,260
5 to 9	White	41,194	38,839	80,033
	Black	6,930	6,510	13,440
	Hispanic	37,823	38,075	75,898
	Asian/Other	15,570	14,491	30,061
10 to 14	White	44,813	42,470	87,283
	Black	7,299	7,084	14,383
	Hispanic	45,040	41,863	86,903
	Asian/Other	15,822	14,643	30,465
15 to 19	White	50,440	44,331	94,771
	Black	7,483	6,356	13,839
	Hispanic	42,686	36,649	79,335
	Asian/Other	16,848	15,777	32,625
20 to 24	White	59,162	43,474	102,636
	Black	8,863	6,084	14,947
	Hispanic	51,049	39,187	90,236
	Asian/Other	18,043	16,266	34,309
25-34	White	111,957	98,108	210,065
	Black	14,980	11,434	26,414
	Hispanic	85,016	79,422	164,438
	Asian/Other	32,525	33,718	66,243
35-44	White	130,842	119,363	250,205
	Black	15,077	12,938	28,015
	Hispanic	57,691	61,848	119,539
	Asian/Other	29,549	32,503	62,052
45-54	White	123,950	121,341	245,291
	Black	9,895	9,288	19,183
	Hispanic	33,390	38,477	71,867
	Asian/Other	23,276	27,461	50,737
55-64	White	81,283	82,787	164,070
	Black	4,825	5,243	10,068
	Hispanic	15,959	20,404	36,363
	Asian/Other	12,863	15,922	28,785
65-74	White	52,172	58,448	110,620
	Black	2,890	3,229	6,119
	Hispanic	9,886	13,513	23,399
	Asian/Other	8,160	11,992	20,152
75-84	White	40,330	56,177	96,507
	Black	1,304	1,796	3,100
	Hispanic	5,157	7,481	12,638
	Asian/Other	4,531	6,085	10,616
85+	White	12,581	23,028	35,609
	Black	290	629	919
	Hispanic	1,187	2,274	3,461
	Asian/Other	934	1,513	2,447
Total		1,492,915	1,468,664	2,961,579

Source: San Diego Association of Governments (SANDAG)

Appendix C		

Figure D.1: San Diego County Major Statistical Areas

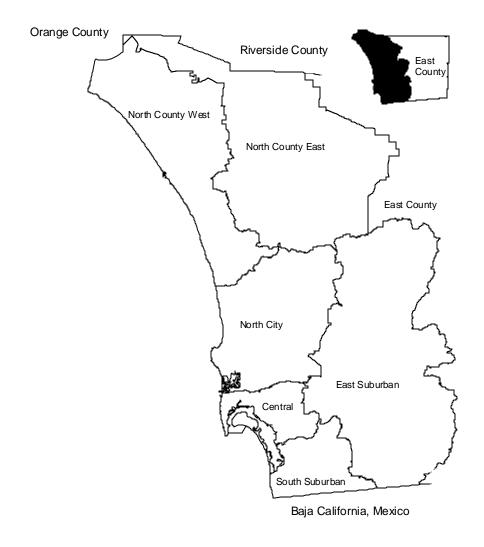


Figure D.2: San Diego County Subregional Areas



DIRECTORY

EMS AGENCY

6255 Mission Gorge Road, San Diego, CA. 92120 - (619) 285-6429

Medical Director: Gary Vilke, MD, FACEP

EMS Coordinator: Patricia Murrin, RN, MPH

QA Specialist – Trauma: Les Gardina, RN, MSN

CHILDREN'S HOSPITAL AND HEALTH CENTER

3020 Childrens Way, San Diego, CA 92123 - (858) 576-1700

Hospital Administrator: Blair Sadler, CEO

Trauma Administrator: Irvin Kaufman, MD

Trauma Medical Director: Barry LoSasso, MD, FACS

Trauma Nurse Coordinator: Sue Cox, RN, MS

SCRIPPS MERCY HOSPITAL

4077 Fifth Avenue, San Diego, CA 92103 - (619) 294-8111

Hospital Administrator: Tom Gammiere

Associate Administrator: Leanne Hunstock, RN

Trauma Medical Director: Michael J. Sise, MD, FACS

Trauma Nurse Coordinator: Dorothy M. Kelley, MSN, RN, CEN

Base Hospital Medical Director: Steven Zahler, MD, FACEP

Base Hospital Nurse Coordinator: Monica Norris, RN.

PALOMAR MEDICAL CENTER

555 East Valley Parkway, Escondido, CA 92025- (760) 739-3000

Hospital Administrator: Gerald Bracht

Trauma Administrator: Kim Colonnelli, RN, MSN, **Trauma Medical Director:** Tom Velky, MD, FACS

Trauma Nurse Coordinator: Beverly Neal, CCRN, BSN

Base Hospital Medical Director: Michelle Grad, MD

Base Hospital Nurse Coordinator: Shelley Berthiaume, RN

SCRIPPS MEMORIAL HOSPITAL, LA JOLLA

9888 Genesee Avenue, La Jolla, CA 92037 - (858) 457-4123

Hospital Administrator: Gary Fybel

Trauma Administrator: Cynthia Steckel, RN

Trauma Medical Director: Fred Simon, MD, FACS

Trauma Nurse Coordinator: Cheryl Wooten, RN, MSN, CNS

Base Hospital Medical Director: Lisa Morikado, MD

Base Hospital Nurse Coordinator: Mary Johnson, RN, MHA, CEN, MICN

SHARP MEMORIAL HOSPITAL

7901 Frost Street, San Diego, CA 92123 - (858) 541-3400

Hospital Administrator: Daniel Gross, RN, CEO

Trauma Administrator: Janie Taylor, RN, BSN

Trauma Medical Director: Frank Kennedy, MD, FACS

Trauma Nurse Coordinator: Kathi Ayers, RN, MSN Base Hospital Medical Director: Mark Kramer, MD

Base Hospital Nurse Coordinator: Linda Rosenberg, RN

UNIVERSITY OF CALIFORNIA, SAN DIEGO MEDICAL CENTER

200 West Arbor Drive, San Diego, CA 92103 - (619) 543-6222

Hospital Administrator: Richard J. Liekweg, CAO
Trauma Administrator: Richard J. Liekweg, CAO
Trauma Medical Director: David Hoyt, MD, FACS

Trauma Nurse Coordinator: Vicki Bennett, RN, MSN

Base Hospital Medical Director: Dan Davis, MD

Base Hospital Nurse Coordinator: Lana McCallum-Brown, RN, MICN

SHARP / GROSSMONT HOSPITAL

5555 Grossmont Center Drive, La Mesa, CA 91942 - (619) 465-0711

Hospital Administrator: Michele Tarbet, CEO

Base Hospital Medical Director: William Linnick, MD

Base Hospital Nurse Coordinator: Mary Meadows-Pitt, RN, BSN, MICN

TRI-CITY MEDICAL CENTER

4002 Vista Way, Oceanside, CA 92056 - (760) 724-8411

Hospital Administrator: Arthur Gonzalez

Base Hospital Medical Director: Todd Zaayer, MD

Base Hospital Nurse Coordinator: Linda Broyles, RN, MSN, MICN